

COMMENT AREA 1:

"THIS... BOOK? IS GARBAGE"

- OK, WRITE A FEW PAGES YOURSELF THEN
STAKE YOUR: NAME, CAREER, PERSONAL
VALUES, PROSPECTS FOR THE FUTURE, AND
SOUL ON THEM.

I WILL WORK TO READ YOUR WRITING, BUT
YOU NEED TO PUT A CRITICAL AMOUNT OF
THINKING INTO IT, MAKE IT PUBLIC, AND
BELIEVE I AM QUALIFIED TO REVIEW IT. ALL
WHILE STANDING BEHIND YOUR WORK. ALSO,
TIME STAMP THEN PLACE IT SOMEWHERE
PUBLIC AND RELATIVELY PERMANENT - IF IT
IS ACTIONABLE OR ANY GOOD YOU, AND OTHER
PEOPLE WILL BE ABLE TO USE IT.
OTHERWISE, WHY BOTHER WITH MY OPINION?

FEEL FREE TO RECOMMEND CITATIONS, I WILL
ADD THEM AS APPROPRIATE.

- HAVE A SMALL BUSINESS THAT IS A
REPLACEMENT FOR A LARGER ONE OR THAT I
CAN EARMARK FOR A SPECIFIC PRODUCT? TELL
ME WHICH ONE, AND HOW I SHOULD NORMALLY
FIND IT.

OR - READ.

TAKE THIS, LEARN IT, TEACH IT, AND
DISTRIBUTE A COPY - JUST DON'T CHANGE
ANYTHING OR GO ON SOME GRAND EFFORT FOR
A SPECIFIC PORTION WITHOUT EMAILING ME
AHEAD OF TIME (PLEASE & THANK-YOU.)

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PART 1

TODAY: HOW I LIVE(D)

TRICKS & DESIGN PLANS SUMMARIZED

THESE DOCUMENTS ARE PUBLIC WITH THE
EXPECTATION THAT INDIVIDUALS DO NOT COPY
THEIR CONTENTS OR USE THEM COMMERCIALY
WITHOUT RECEIVING MY WRITTEN PERMISSION,
WHICH I GIVE FREELY IF THERE IS POSITIVE
INTENT SHOWING LOVE FOR THY NEIGHBOR.

THE CONCEPTS ARE NOT COMPLEX, AND ARE
GENERALLY KNOWN, BUT HAVE NOT BEEN
PUBLISHED IN AGGREGATE OR AT A SCALE
THAT SUPPORTS THEIR FABRICATION BY
INDIVIDUALS. TRUTH BE TOLD - EVERYTHING
HERE IS COMMON KNOWLEDGE.

STOP MAKING IT COMPLICATED,
AND STOP PREVENTING OTHER PEOPLE FROM
DOING THEIR WORK.

SHEET NUMBER:
PART: ONE - TODAY, TRICKS, DESIGN PLANS

COMMENT AREA 2:

LOOKING FOR ALTERNATES TO THESE WITH
SIMILAR FEATURES AND PRODUCTS:

1. COSTCO - HOTDOGS, PIZZA, ICE, 91 GAS
 2. SMART&FINAL - SOME FOOD
 3. ALDIS - MOST FOOD
 4. WALMART - WATERPROOF PAPER, FOOD.
 5. CHEVRON - E85 ETHANOL
 6. LOWES - SOLAR CHARGERS
 7. AMVETS - CLOTHES, MISC SMALL THINGS
 8. GOODWILL - CLOTHES, MISC SMALL THINGS
 9. AMAZON.COM - RESEARCH ONLY NOW
 10. NEWEGG.COM - SERVER COMPUTER PARTS
 11. BESTBUY - TOOTHBRUSH, USED COMPUTER
 12. LINARO - RESEARCH, CREDIT CARD COMP
 13. PI - RESEARCH, CREDIT CARD COMPUTERS
 14. ADAFRUIT - RESEARCH, RANDOM PARTS
 15. ARDU (PILOT/DRONE/ROVER) - RC DRONE SOFTWARE & RESEARCH FOR PARTS
 16. APPLE - NOT USED, RANDOM REPAIRS
 17. ASUS, ACER, HP - NOT USED
 18. DELL - CURRENT LAPTOP
 19. WINDOWS - O.S. (MOVING TO SLACKWARE)
 20. GOOGLE VOICE - FREE PHONE OPTION?
 21. ANDROID -LOCUSMAPS, MYRADAR (ON WIN)
 22. TRIMBLE - SKETCHUP
 23. BLUEBEAM - PDF
 24. REI - CAMPING STOVE, PACK TOWEL
- LITHIUM POLYMER BATTERIES

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SHEET NUMBER:
REVELATION, START WITH THE END IN MIND

ESV BIBLE:

<https://www.biblegateway.com/versions/english-standard-version-esv-bible/>

ESV LUTHERAN STUDY BIBLE PREFERRED

CONCORDIA AKA "BOOK OF CONCORD"

<https://archive.org/details/concordia-orbooko000unse>



*COME OFF IT.

REVELATION 6

- WHITE HORSE; BOW; CONQUERING
- RED HORSE; SWORD; TAKES PEACE
- BLACK HORSE; SCALES
(A STRICT MERCHANT...)
- PALE HORSE; AUTHORITY OVER 1/4 OF EARTH TO KILL WITH SWORD, FAMINE, PESTILENCE, AND BEAST; DEATH

WHY? END OLD, START NEW, ADDRESS SIN AND LOVE WHILE RECEIVING JUDGEMENT - RINSE AND REPEAT, MAKE IT SMALLER, AWAIT CHRIST COMING AGAIN, THERE IS NOT A DATE.

ENCYCLOPEDIA BRITANNICA

<https://www.britannica.com/biography/Albrecht-Durer-German-artist/Service-to-Maximilian-I>

LUTHERAN CHURCH MISSOURI SYNOD

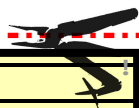
<https://resources.lcms.org/history/the-four-horsemen-of-albrecht-durer/>

FAR BETTER THAN MY PROSELYTIZING (TRYING TO GET YOU TO COME TO MY FAITH) IS THIS:

<https://www.st-lukes-la-mesa.org/news/letters.php>

THERE ARE UNDER 2 PAGES OF RELIGION BASED TEXT IN PART ONE. IF THAT IS TOO MUCH FOR YOU, YOU'RE A BIGOT - FLATOUT. I HAVE SPENT DECADES LISTENING TO AND ENCOURAGING THE OPPOSITE: LIES, AND USELESS ATHEIST SCIENCE THAT ENDS IN BOOKS OR WITH ABISMAL PRODUCTS THAT I AM PESTERED TO BETA TEST AND IMPLEMENT.

THOSE PAGES ARE HIGHLIGHTED FOR YOU IN RED, IF THAT'S STILL TOO MUCH RELIGION - SHUT YOUR MOUTH AND LET SOMEONE ELSE SPEAK FOR YOU INSTEAD, LIFE IS TOO HARD TO LIVE WITHOUT A FOCUS ON CHRIST AS GOD.



I AM BUILDING A
BOAT, WHILE
SEARCHING FOR THE
PROTEVANGELIUM.

INTENT

I AM BUILDING A BOAT, WHILE SEARCHING FOR THE *PROTEVANGELIUM

*WEBSTER IS OK FOR DEFINITIONS, DON'T RELY ON IT FOR TRUE MEANING AND INTENT OR ALLOW IT TO BE USED AS A METHOD OF TURNING WORDS INTO FALSE WEAPONS.

THESE ARE THINGS: SOME ARE USEFUL, SOME ARE FREE, I PREFER THEM TO MOST OTHER OPTIONS BECAUSE THEY FACILITATE WORK AND PROVIDE MORE VALUE OVER A LONGER PERIOD OF TIME AT A LOWER COST.

THERE IS ALSO A WORLDVIEW HERE - YOUR OPINION WILL VARY, I HAVE LIVED MANY DIFFERENT AND MORE A-TYPICAL WAYS TO MY DETRIMENT AND PREFER THESE FOR COST AND QUALITY OF LIFE.

THOSE OF YOU WHO HAVE AN INTEREST IN ANY OF THESE PLEASE COMMUNICATE IT TO ME SO I CAN COORDINATE WITH YOU AND AVOID DUPLICATING EFFORTS. YOUR OWN GIFTS/REQUESTS/NEEDS/SO-ON WILL UNDOUBTEDLY VARY. THIS IS WHAT I HAVE, THIS IS WHAT I TRY TO SHARE, THIS IS WHERE I AM TRYING TO GO. THE RIGHT WAY TO SAY IT IS: "GOD WILLING, I WILL DO THIS" AND I PREFER TO DO IT WITH OTHER PEOPLE WHO HAVE SIMILAR INTERESTS (A FAMILY, A SYNOD, A COMMUNITY, A NATION.) "THIS" IS "A BOAT" - LITERAL AND FIGURATIVE, AND HOW TO GET IT MADE.

THE WORK WAS WRITTEN AND DESIGNED ALMOST ENTIRELY AT SAN DIEGO COUNTY: LIBRARIES, PARKS, AND IN MY CAR. INCLUDING THE 3D MODELING WORK FOR THE LARGER GRAND JUNCTION BLUE BUILDING WHICH WAS COMPLETED 100% IN SKETCHUP ONLINE (PROVING - YOU CAN DESIGN A BUILDING OR PRODUCT ON A PUBLIC COMPUTER WITH INTERNET.)

I AM STILL RELIANT ON THE WORK OF THE PAST - REGARDLESS OF WHO HAS MADE IT *AS WE ALL ARE. HOWEVER, THE CONTENT (NOT NECESSARILY "TONE") OF THIS WRITING IS FRUSTRATED WITH PUBLIC Demeanor & ACTION

- REGARDLESS OF AGE, AND IT CURRENTLY PRESSES AGAINST "LIBERALISM", BOTH REPUBLICAN AND DEMOCRAT. THE WRITING/WORK PREFERS CONSERVATISM IN ADDITION TO PROGRESSIVISM. YES THAT IS POSSIBLE, AND THIS WRITING COVERS WHAT I BELIEVE "CONSERVATIVE PROGRESSIVISM" IS. SOME THINGS CHANGE, SOME THINGS STAY THE SAME, THEY ARE LOOKED AT WITHIN THE **CONTEXT OF GOD - GOD MAINTAINS LIVING AND LIFE DESPITE OUR MASSIVE ERRORS EACH SECOND WHICH WE DESERVE TO FEEL BAD ABOUT AND WHICH ONLY HE GRANTS FORGIVENESS FOR.**

PUBLIC DEAMEANOR: WITHIN 1 YEAR THERE HAVE BEEN ABOUT 1000 PEOPLE WHO HONK DIRECTLY NEXT TO THE CAR I AM OFTEN IN - A WHITE SUBARU OUTBACK WITH BLACK AND WHITE TEXT ON THE SIDE WINDOWS, 2K-3K WHO REV THEIR ENGINES AND DRIVE AGGRESSIVELY DIRECTLY NEXT TO IT TO CAUSE ALARM/A SENSE OF FALSE URGENCY, 20 WHO THROW THINGS, 5-6 POLICE WHO COME AND ASK FOR ID THEN LEAVE, 100+/- AMBULANCE AND FIRE SIRENS, 2 SOCIAL SERVICES INDIVIDUALS WHO SHOWED UP TO SHOWCASE THEIR OWN PROCESS MORE THAN TO COMMUNICATE ABOUT WHAT IS CLEARLY PRESENTED HERE AND WHICH WAS ADVERTISED TO THEM WITHIN EMAIL AND ON THE CAR THEY SPEAK BLINDLY TO, AT LEAST 10-20 STRATEGICALLY POSITIONED PIECES OF TRASH AROUND THE CAR EACH MONTH, 0 EMAILS TO THE ADDRESS WRITTEN ON BOTH SIDES OF THE CAR WINDOWS IN 3" LETTERS, 0 NOTES LEFT, 1 BREAK-IN WITH ME INSIDE (BY A FAMILY,) 1 VANDALISM BREAK-IN WHILE I WAS AWAY, AND MINOR DAMAGE TO THE CAR KEYHOLE.

ADD IN A VARIETY OF PEOPLE FALSIFYING THAT THEY ARE HOMELESS WHILE CAUSING SCENES IN AND AROUND THE LIBRARY OR IN PUBLIC (NOT VERIFIABLE, BUT RELATIVELY CERTAIN.) TWO STRANGERS WHO SAID HELLO WHILE I WAS IN THE CAR BESIDES FAMILY WHO HAVE DONE THE SAME ABOUT 5 TIMES, ALL AFTER BEING IN JAIL FOR A SHORT PERIOD OF 2 WEEKS WITHOUT BREAKING MAN'S LAW - BUT WHILE COMPLAINING TO GOD AND ASKING FOR HELP IN REGARDS TO THE PAST. LESSON: BE CAREFUL WHAT YOU PRAY FOR - HE LISTENS, AND WE DO NOT UNDERSTAND THE RESPONSE. THERE IS NOT A NEED FOR HELP HERE BEYOND GOD & AMERICAN CAPITALIST SUPPORT / INTERACTION, BUT THERE IS ALSO A SEVERE DISAPPOINTMENT IN HOW WE INTERACT BETWEEN DIFFERENT WAYS OF LIFE THAT ARE CERTAINLY MORAL, NORMAL, AND RELATIVELY COMMON WORLD-WIDE.

WHY NOBODY HAS EVEN ATTEMPTED TO EMAIL OR LEAVE A PAPER NOTE DURING THIS PROCESS IS BEYOND ME, BUT IT IS CLEAR THAT HUMAN BEINGS CHOOSE NOT TO COMMUNICATE DIRECTLY AND HONESTLY, WHILE BEING VERBALLY AND PHYSICALLY VIOLENT TOWARDS STRANGERS BY NATURE WHEN PRESENTED WITH A DIFFERENT WAY OF LIFE, AND MAINTAINING AN ALTERIOR POLITICALLY DRIVEN MOTIVE (FUND UNTENABLE SOCIAL WELFARE OR OUR OWN: BUSINESS, POLITICAL, AND PERSONAL INTERESTS.) MY USE OF CAPITAL LETTERS AND THE TONE OF THIS WRITING (MAGNIFIED BY WHATEVER IS IN YOUR HEAD) IS OF MINOR IMPORTANCE.

LET ME TELL YOU HOW I'M TRYING TO "COME OFF IT" AND PROVIDE YOU WITH A SEED THAT YOU CAN EITHER NURTURE OR KILL; BECAUSE ALL OF US ARE FAILING. FIRST - REVIEW THE PREVIOUS PAGE, AND FEEL FREE TO STOP OR RESTART FROM THERE AS WE ARE WITHIN REVELATION EVERY DAY OF OUR LIVES.

FOCUS	ANCILLARY	END GAME
<ul style="list-style-type: none"> - COMPLETE THIS WORK WITHIN A PURSUIT OF FAITH IN CHRIST (A DIRECT RELATIONSHIP WITH THE TRINITY AND FREE FORGIVENESS - LUTHERANISM.) - WORK IN PUBLIC, BECAUSE THE PUBLIC FAILS TO ANSWER WHEN ASKED FOR HELP WELL IN ADVANCE, THEN SUDDENLY SHOWS UP WHEN IT IS GOOD FOR THEM (TYPICALLY AROUND CHRISTMAS, HOLIDAYS, AND ELECTION OR NEWS CYCLES.) - THE CORRECT METHOD IS "VOLUNTEER ORGANIZATIONS", NOT NON-PROFITS, NOT N.G.O.'S, AND NOT GOVERNMENT ENTITIES. - PROVIDE LOVE FOR THY NEIGHBOR (THE WAY YOU WANT TO BE LOVED.) - EXPECT TO BE FORTHRIGHT IN HONESTY, PURSUE THE TRUTH. - SUPPORT FREEDOM OF SPEECH, AND CONSTITUTIONAL RIGHTS. ESPECIALLY IF YOU ARE RELATED TO GOVERNMENT AS IT IS YOUR SWORN RESPONSIBILITY TO UPHOLD THEM. SPEAK FOR YOURSELF, AND IN SUPPORT OF THOSE WHO YOU AGREE WITH. - REPLY TO: AUTHORS, BUILDERS, DESIGNERS, MAKERS DIRECTLY (WITH CRITICAL FEEDBACK AND RECOMMENDATIONS.) - READ EMAILS OR SEND THEM TO SPAM. - WORK WITHOUT PIDDLEY RULES, MAINTAIN FOCUS ON AGILITY, PERSONAL + DESIGN STANDARDS & GOD'S LAW. - JUDGE ACTIONS ALREADY EXPERIENCED AFTER WORKING TO ADDRESS THEM INTERNALLY. 	<ul style="list-style-type: none"> - BIBLE STUDY "BOOK OF CONCORD" & "LUTHERAN STUDY BIBLE" - PROPERTY IDENTIFICATION (FLYERS, GIS, CITY DOCUMENT/PERSONNEL 91941, 91942, EL CAJON, SANTEE.) CLOSER TO 8&15 IS BEST. - SOCIAL COMMENTARY ARTICLES (CARVE OUT A NICHE: TEACHING & DEVELOPMENT OF INTEREST. COMMUNICATE THIS EFFORT TO OTHERS, IDENTIFY INDIVIDUALS WHO ARE PASSIONATE ABOUT SPECIFIC PARTS AND ARE LOOKING FOR A PLACE OF THEIR OWN.) - FITNESS 2 HOURS A DAY, PRIMARILY: BIKE, ROW, WALK, SWIM (PREFER: SAIL AND PADDLE.) - CAR REPAIRS & PERSONAL NEEDS (FINANCING, CITY & COUNTY RESOLUTIONS) OPTION 1: REMOVAL OF ZONING REQUIREMENTS FOR SPECIFIC LOCATIONS. OPTION 2: REZONING FOR THREE PARKING SPACES (600SF) TRANSITION TO LIVE/WORK NEAR THE HIGHWAYS OR MAIN ROADS. - GET ON THE WATER "I'M BUILDING A BOAT", FOR REAL & AGAIN. - FIND HARD WORKERS THAT WILL HELP ADDRESS BARRIERS TO ENTRY & COMPETITION. - MEET PEOPLE WHO WANT TO WORK TOGETHER WHILE STARTING THEIR OWN BUSINESS & WHO CHOOSE TO BE SLAVES TO RIGHTEOUSNESS (TO FREEDOM.) - FILL THE HOLE IN MY HEART, JUST LIKE YOU. 	<ul style="list-style-type: none"> - CHANGE INDUSTRY RELATED TO: MILITARY, INTERNET, HOUSING, VEHICLES, APPLIANCES, WEBSITE AUTHORING, COMPUTERS & MOBILE PHONES, FUEL, FOOD, CHEMISTRY, AUTOPILOT, PAPER BOOKS, FURNITURE, SOCIAL SERVICES, ETC. USING READILY AVAILABLE PRODUCTS AND MANUFACTURING. - "I'LL TAKE HALF" THE U.S. FEDERAL BUDGET, AND TERM LENGTH FOR ALL POSITIONS. - LOW COST LIFESTYLE THAT SUPPORTS AMERICAN BUSINESS, ECONOMY & INFLUENCE. - SMALLER DEFENSE EQUIPMENT: INTERNATIONAL MINUTEFAMILY PHILOSOPHY WITH COMMERCIAL APPLICATIONS FOR TRAINING & EQUIPMENT. - NO PAYMENTS INTO OR BENEFITS FROM SOCIAL SECURITY AFTER 2035 UNLESS OVER 65 YEARS. - A BETTER SOUL, AND A CLEARER UNDERSTANDING OF WHAT HEAVEN CAN BE LIKE.
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DESIGN INTENT

SHIPBUILDING IS AT THE CUTTING EDGE OF TERRESTRIAL DESIGN AND CONSTRUCTION. BOATS UNDERGO STRESSES AND USECASES THAT ARE FAR MORE COMPLEX THAN ANY BUILDING. THAT SAID - THE BOAT BEING BUILT HERE IS LIMITED IN SCOPE AND SIZE TO LESS THAN 20FT. THE PRODUCTS/INVENTIONS HERE SUPPORT THE CONSTRUCTION OF THAT BOAT AND ITS USE WHILE THE CONTAINER BUILDING (A LAND & SEA STRUCTURE) IS EXPECTED TO FACILITATE ITS CONSTRUCTION. THE STANDARDS FOR THESE INDIVIDUAL PROJECTS ARE ALSO EXPECTED TO INTEGRATE WITH OTHER EXISTING PRODUCTS/STANDARDS IN ORDER TO KEEP COST REASONABLY LOW AND TO HELP CONSIDER REAL WORLD MANUFACTURING NEEDS / LIMITATIONS INCLUDING AVAILABILITY OF MANUFACTURED PARTS AND OFF THE SHELF USED PARTS (BOAT HULLS, OUTBOARD ENGINES, STEEL ISO CONTAINER SHELLS, CREDIT CARD COMPUTERS, LIQUID TANKS, ETC. THERE IS A "LEVEL OF DETAIL" THAT THE PRODUCTS PROPOSED HERE REMAIN WITHIN IN ORDER TO USE THOSE EXISTING PRODUCTS WHILE FILLING A NICHE WITH ADAPTERS AND SPECIFIC USE CASES.

DO I "COME OFF IT" COMPLETELY - NO, OTHERS WILL DO IT BETTER. HOWEVER, I DO TRY TO "DO IT" AT A LOW PRICE POINT WHILE MAINTAINING VALUE/UTILITY, AS WELL AS ACCOUNTABILITY AND RESPECT FOR SOLID WORK, PLUS DISRESPECT FOR THE LATTER.

IN AGGREGATE, THIS SERIES OF WORKS EXISTS TO BUILD A BOAT WITHIN SEVERAL SHIPPING CONTAINER LIVE/WORK UNITS THAT FABRICATE INDIVIDUAL PARTS. BOTH IN A SINGLE GEOGRAPHY, AND DECENTRALIZED ACROSS MULTIPLE GEOGRAPHIES (A 300 MILE LOOP AROUND THE COUNTY + XYZ OTHER CITIES, STATES, OR NATIONS?)

THAT, WHILE ALSO SUPPORTING INDIVIDUALS AND FAMILIES WHO EITHER WANT TO WORK TOGETHER, OR APART. THE WORK HERE IS FLEXIBLE, THE PRODUCTS ARE FLEXIBLE, THE LOCATION IS FLEXIBLE. MY PERSONAL NEEDS/WANTS: A SHIPPING CONTAINER HOME, PERFORATED PANEL FURNITURE & TOYS, LOWER WEIGHT DC CAMPING EQUIPMENT THAT ALSO SUPPORTS TRANSPORTATION, LOW COST ENERGY, LONG TERM FITNESS, AND THE ABILITY TO BUILD THESE THINGS FOR OTHERS WHO SHARE THE SAME INTEREST - WHEREVER THEY ARE. ALL WHILE MAKING DESIGNS AVAILABLE THAT TEACH PEOPLE HOW TO BUILD SOMETHING SYMBIOTIC AND INTERRELATED (MODULAR.) ALONG WITH THE ABILITY TO GIVE CHILDREN THE SAME TOOLS/TOYS AT A RELATIVELY YOUNG AGE AND FOR THEM TO GROW WITH THEM, OR AT THE VERY LEAST FOR THIS EQUIPMENT TO BE USEFUL IN A GARAGE.

THIS IS NOT A CHARITY EFFORT, IT IS INTENDED TO DEVELOP INTO MANY BUSINESSES THAT ARE WITHIN A RELATIVELY SELF SUPPORTING NETWORK OF FABRICATORS. HOWEVER, THE AVAILABILITY OF DESIGNS, KEEPING COSTS LOW, AND SUPPORTING THE MISSIONARY / TRAVELING / EDUCATIONAL EFFORTS OF OTHERS ARE ALL WITHIN THE WORK THAT THESE DESIGNS ARE INTENDED FOR. THE DESIGNS ARE ALSO SPARTAN ENOUGH TO BE OUTSIDE THE INFLUENCE OF CHARITIES, NON-PROFITS, AND FEDERAL/STATE GRANTS (THESE DESIGNS DON'T REQUIRE A DOLLAR TO WASHINGTON AND A PENNY IN RETURN.) OTHER EQUIPMENT IS ALREADY READILY AVAILABLE AND IN-USE (SO THERE IS NO TRULY CRITICAL NEED AS EMERGENCY AND CHEAPER SUPPLIES ARE ALREADY AVAILABLE.) DESIGNS ARE WORKING TO BE CNC FABRICATION READY (LIMITED SPECIAL TOOLING, AND SHOULD BE STRAIGHTFORWARD TO FABRICATE IN MANY AREAS, METALWORKING TOOLS REQUIRED.)

REGARDLESS, A COLLECTIVE (CO-OP STYLE) EFFORT WILL IDEALLY BE SEEDED EARLY ON WITHOUT TURNING EVERYTHING INTO AN OPEN SOURCE PROJECT THAT IS ACTUALLY OWNED BY AN INDIVIDUAL *NOT ETHICAL. INSTEAD, THE CURRENT FOCUS IS:

VALUE: WHAT MEETS A NEED THAT PEOPLE HAVE ON A REGULAR BASIS WHILE MAINTAINING A COMPETITIVE PRICE.

AND

UTILITY: WHAT ALLOWS FOR THE CREATION OF ADDITIONAL WORK.

THIS IS BECAUSE VALUE IS AT ODDS WITH LONGEVITY. SOMETHING THAT WORKS INITIALLY OFTEN BREAKS DOWN - ULTRA LOW COST SINGLE USE ITEMS ARE NOT ACTUALLY VALUABLE (ALTHOUGH THEY HAVE UTILITY, THEY GET THE JOB DONE.) MORE SO, THE THINGS THAT MEET OUR IMMEDIATE NEEDS ALMOST NEVER GET US GOING UNDER OUR OWN POWER FOR A LONGER PERIOD OF TIME. FREEBIES ONLY GET US SO FAR, AND DISPOSABLE IS TYPICALLY RESERVED FOR A PARTY OR A SHORT TERM PROJECT. UTILITY ON THE OTHER-HAND IS ALL WORK AND NO PLAY, BUILDING MACHINES FOR THE SAKE OF CREATING COMMODITIES THAT WE MAY NEVER USE. UTILITY IS A MILITARY MINDSET, AND IN MANY CASES THAT WORK (WHILE REQUIRING A GREAT DEAL OF BLOOD/SWEAT/TEARS) DOES NOT GET USED.

COMBINING VALUE WITH UTILITY MEANS: ECONOMIC SUSTAINABILITY AND WORK THAT LASTS FOR A LONGER PERIOD OF TIME WHILE HELPING TO INCREASE OUR OVERALL QUALITY OF LIFE. NOT THE CHEAPEST, NOT THE MOST EXPENSIVE, NOT ENTIRELY FOCUSED ON WORK FOR WORK'S SAKE - SOMEWHERE IN BETWEEN (WHERE ALL OF US ACTUALLY LIVE AND DIE.) **MOST IMPORTANTLY, IT'S TRULY MODULAR - WE/YOU/I CAN CUSTOMIZE IT LATER.**

BRAKE CHECK: "VALUE AND UTILITY" SHOULD MEAN SOMETHING ELSE

WHATEVER OUR (AS IN EVERYONE) TRIUNE GOD SAYS IT MEANS. INCLUDING MANY OF THE THINGS THAT DON'T MEET MY OWN DEFINITION OF IT (OR THAT ARE "CHEAP",) AND ESPECIALLY THOSE THAT ARE NOT PHYSICAL. THIS IS NOT "TELLING YOU WHAT TO BELIEVE" - THIS IS SIMPLY THE TRUTH: I'M WRONG, AND SO ARE YOU - ALWAYS.

HOWEVER - THE ONLY WAY TO CONVINCE YOU OF THAT IS: CHRISTIAN SUFFERING AND HARD WORK THAT IDEALLY RESULTS IN A HIGHER QUALITY OF LIFE WHILE MINIMIZING LOCAL/NATIONAL SUFFERING AND ENCOURAGING POPULATION GROWTH (AN IMPOSSIBLE TASK.) THAT EMPHASIS ON LOCAL IS ALSO REQUIRED IN ORDER TO MEET GLOBALIZATION GOALS "THINK GLOBALLY, ACT LOCALLY" - A RIDICULOUS PHRASE, BUT IT HOLDS TRUE IF WE ACTUALLY FOCUS ON THE WORK WE MUST DO THAT IS IN FRONT OF US. OTHERWISE,

PEOPLE REFUSE TO BELIEVE IN THIS "WAY." ALSO, THIS METHOD PRODUCES GOOD FRUITS AS SHOWN THROUGH THE LIFE OF CHRIST AND THOSE WHO ACTIVELY WORK TO FOLLOW GOD THROUGH HIM (AS HE IS THE ONLY MAN&GOD WHOM WE CAN REMOTELY UNDERSTAND.) ANYTHING ELSE IS A CONCESSION TOWARDS DEATH AND AN ATTEMPT TO CODIFY/LEGALIZE LIFE IN ORDER TO MAINTAIN A SLOWER SLIDE TOWARDS DEATH IN THE HOPES THAT WE FINALLY REALIZE WHICH WAY IS BACK UP.

WHICH IS THE OTHER REASON THIS WORK IS SUMMARIZED HERE AND IS MADE AVAILABLE ONLINE, BECAUSE IT IS NOT TRULY MINE - IN ADDITION TO IT BEING AN EXPRESSION OF "LOVE THY NEIGHBOR AS THYSELF." STILL, THIS IS NOT A PHILANTHROPY PROJECT - IT IS CLOSER TO A PUBLICLY PROMOTED BUSINESS PLAN WITH MINIMAL CROWDSOURCING PLUS AN INTEGRATED EDUCATIONAL EFFORT.

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KITS? WHY NOT JUST A CAR?

LISTS OF WHAT IS PROVIDING VALUE & UTILITY TO ME (NOT TYPICALLY AT THE SAME TIME, BUT AS KITS FOR DIFFERENT ACTIVITIES) ARE INCLUDED BELOW. YOUR OWN GEAR WILL UNDOUBTEDLY VARY, OR PERHAPS IT IS JUST A ROBE. WHAT I ACTUALLY NEED FOR 300 MILES IN 3 DAYS IS SIGNIFICANTLY LESS THAN WHAT IS INCLUDED HERE. ALTHOUGH, I WOULD LIKE TO LIVE THIS WAY UNTIL I DIE, AND TO DO WORK WITH THESE ADDITIONAL TOOLS. THIS IS HOW I PROPOSE TO GO "FROM A BAG TO A HOME" WITH WHAT IS ALREADY AROUND, AND WHAT CAN BE IMPROVED. YOU DO IT DIFFERENTLY - THIS IS A REFERENCE, LEANING AGAINST A CORNERSTONE OF TRUE FAITH WHICH MUST ALSO BE NURTURED AS THE GIFT IT IS.

THE BOAT I INITIALLY BUILT FOR 300X3, WHILE RELATIVELY FAST AND MODULAR IS MUCH TOO: HEAVY FOR TRANSPORT, SLOW TO ASSEMBLE, AND DIFFICULT TO STEER, SO IT IS TO BE RE-BUILT. THE FOCUS IS MODULARITY - ANY HULL, ANY CAR (OR NO CAR), ANY ROOF-RACK / TRAILER RACK. HENCE THE 2"X2" GRIDDED .5" HOLES AS A PERFORATED PANEL (DECK) REQUIREMENT - SO YOU CAN DESIGN AND ATTACH WHATEVER I DON'T FINISH AND CONTINUE TO MAKE IT YOURSELF. THIS IS CALLED AN "OPEN STANDARD" AND IS VERY COMMON (ALONG WITH PERFORATED PANELS IN GENERAL - ONCE YOU KNOW THEM YOU WILL SEE THEM EVERYWHERE.) YOU CAN DO IT BETTER, YOU CAN DO IT CHEAPER, YOU CAN SLIGHTLY CHANGE THEN REBUILD ON A DERIVATIVE OF THE STANDARD. YOU CAN DO IT WITH WHAT YOU HAVE AND ASK FOR WHAT YOU KNOW YOU NEED. CLEARLY THERE IS AN OPTION TO NOT DO IT AT ALL - OTHER WAYS TO LIVE AND ADVENTURE ARE OUT THERE.

SHEET NUMBER:
I DON'T TRULY KNOW VALUE AND UTILITY

HOWEVER, DO NOT DO IT WHILE SOMEONE ELSE FOOTS THE BILL AND YOU HAVE NO INTENT OF WORKING INTO SOMETHING THAT IS RELATIVELY SELF SUFFICIENT AND CONTRIBUTORY. WORK TOWARDS INDEPENDENCE, AND MAKE THIS A SPIRITUAL JOURNEY WHERE YOUR CHALLENGE WILL EVENTUALLY BREAK YOU. THE BOAT AND CONTAINER DESIGN HERE ARE INTENDED TO BE CARRIED BY ANY CAR WITH AN APPROPRIATE LUGGAGE RACK WEIGHT LIMIT - REMOVABLE BY HAND.

TALL CARS ARE PROBABLY NOT GOING TO WORK, A SUPER LOW WEIGHT RACK LIMIT IS NOT GOING TO WORK, A TINY CAR ALSO WON'T TYPICALLY WORK. REGARDLESS, THE STANDARD IS: ANY LUGGAGE RACK, THAT ALSO MEANS THAT A TRAILER WITH A STANDARD LUGGAGE RACK ATTACHMENT WILL CARRY THE SAME THING. HOWEVER, THAT TRAILER IS 16' LONG - NOT GREAT (TOUGH TO PARK, TOUGH TO LAUNCH, TOUGH TO DRIVE, TOUGH TO STOP, REGISTRATION FEES, COST TO STORE.) ALL NO GOS FOR ME, PROBABLY YOU TOO SINCE VERY FEW BOAT OWNERS KEEP THEIR BOAT OR USE IT VERY OFTEN (EVEN IF RENTED OR AT A MARINA.) HENCE - TIEING BOAT USE TO A LIFESTYLE CHANGE AND LEARNING + TEACHING A SIZE OF LIFE THAT COSTS LESS.

AN APPROPRIATE CAR IS REQUIRED FOR HAULING A SPECIFIC WEIGHT LIMIT AND SIZE. YES, YOU CAN BEND THE RULES, BUT THERE ARE LIMITS AND THOSE LIMITS GET STRETCHED BY REPETITIVE USE (USING A BOAT WITH A CAR IS EXPECTED TO BE REPETITIVE.) REGARDLESS - THE THINGS HERE ARE BUILT TO A COMPROMISE BETWEEN WEIGHT, UTILITY (THEIR ABILITY TO SUPPORT LIFE & PAYING WORK, NOT JUST LEISURE / NUMBER OF USE CASES), AND PRICE. THIS IS WHAT I CALL "VALUE AND UTILITY." HOW SOMEONE USES IT WILL CERTAINLY DETERMINE WHAT IS.

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**YOUR CAR IS TOO BIG FOR YOUR COMMUTE,
AND IT'S BECAUSE OF BAD ZONING WITH
OVERSIZED LOT REQUIREMENTS.**

A SIDESTEP HERE, THE GOAL IS NOT "HUGE
BOAT CARRYING CAR" - IT IS STILL "A
REASONABLE SIZE" WHICH SHOULD BE
COMPARABLE TO A BOTTOM SLUNG BOAT HULL
UNDER A HIGH RIDING RECUMBENT BICYCLE.
UNLESS YOU ARE MOVING LARGE AMOUNTS OF
MATERIAL ON A REGULAR BASIS, YOUR BIG
CAR WASTES ENERGY (REGARDLESS OF ITS
TYPE OF FUEL) AND DRIVING YOUR KIDS TO
SCHOOL SIMPLY MEANS YOU CANNOT TEACH
THEM YOURSELF AND/OR THEY ARE TOO FAT
AND ENTITLED TO WALK/SCOOT/SKATE. THE
BELIEF "I NEED A BIG CAR TO DRIVE
EVERYONE THROUGH A FAST-FOOD JOINT" JUST
SO WE CAN RELY ON SOME KIND OF FORCED
NATIONALIZED HEALTHCARE IS ALSO GARBAGE;
IF YOU DON'T USE YOUR BIG CAR TO
TRANSPORT BIG THINGS / LARGE QUANTITIES
- GET RID OF IT.

I HAVE A BIG CAR, IT IS TOO BIG, IT IS
MORE DIFFICULT THAN HAVING A SHIPPING
CONTAINER TO WORK IN, MY BICYCLE WITH
BAGS IS BETTER FOR MOST ERRANDS, AND
ANYTHING I PICKUP WITH MY CAR IS EASY TO
DELIVER BY FLATBED F-350 OR SIMILAR.
THIS CAR IS ALSO A MAINTENANCE ISSUE.

COMPARATIVELY, IT IS USELESS AND I ONLY
HAVE IT BECAUSE EXISTING DEVELOPMENT
AND ZONING ARE PREVENTING THE PURCHASE
OF LAND THAT MAKES SMALL LOT OWNERSHIP
& CONSTRUCTION POSSIBLE WHILE TRYING TO
PUSH FORWARD ALTERNATIVE DWELLING UNITS
INSTEAD OF SUB 600SF LIVE/WORK
BUILDINGS. MY COMPLAINT? NO, A COMMON
HISTORY RESULTING IN OUR URBAN FABRIC.
PROBLEMS THAT NEED TO BE ADDRESSED SO
THAT YOU CAN LIVE/SURVIVE IN A
CAPITALIST SOCIETY AMONG "URBAN BLIGHT."

I THOUGHT WE WERE TALKING ABOUT BIG
CARS? EVERYTHING IS TIED TOGETHER, AND
THE CAR IS EQUIVALENT TO THE COST OF THE
HOUSE (\$30K FOR A DECENT CAR CAN GET YOU
A DECENT HOUSE.) WE HAVE BLOWN UP THE
PRICE OF THE HOUSE IN ADDITION TO THE
SIZE OF THE CAR.

THAT CAR ALSO DISCOURAGES ME FROM
PURCHASING THINGS LOCALLY BECAUSE I
DON'T KNOW ALL THE LOCAL SHOPS.
SOMETHING THAT IS ADDRESSED BY WALKING,
BIKING, OR DECADES OF LIVING WITHIN A
CITY.

KNOW THIS - A NEIGHBORHOOD THAT PREACHES
"A HOME FOR EVERYONE," BUT ONLY A HOME
THAT COSTS YOU AN ARM AND A LEG OR ONE
THAT WILL NEVER BE OWNED AND WILL NEVER
APPRECIATE IN VALUE IS NOT CHRISTIAN
(BECAUSE OUR PERSONAL LIFESTYLE IS AT
ODDS WITH WHAT WE PROPOSE FOR OTHERS)
AND IS GENERALLY VERY FOOLISH
ECONOMICALLY BECAUSE IT SLOWLY INCREASES
THE PRICE AND DECREASES THE VALUE OF
VARIOUS SERVICES AND OTHER OPPORTUNITIES
FOR THE LONG TERM RESIDENTS OF AN AREA.
WHAT ELSE IS GARBAGE? THE RIDES I GOT TO
AND FROM SCHOOL AS A KID ON A REGULAR
BASIS FOR YEARS, I SHOULD HAVE WALKED.

**MOVING PAST THE CAR, OR JUMPING AHEAD TO
A 20' ISO CONTAINER**

THE EQUIPMENT PRIORITIES BELOW ARE BASED
ON AVAILABILITY OF MATERIAL AND CURRENT
SITUATION WHILE ATTEMPTING TO TRANSITION
COSTS OVER TIME AND CAPPING OVERALL
EXPENSES BELOW \$50K INCLUDING: A
RELATIVELY PERMANENT SHIPPING CONTAINER
HOUSE, A BOAT, FURNITURE, APPLIANCES,
AND SOME SHOP TOOLS. \$50K IS 1/6 THE
COST OF A VERY LOW COST HOUSE IN SAN
DIEGO COUNTY.

OTHERWISE, JUMP TO A CAR AND AN
APARTMENT, GUARANTEED BLACKHOLES FOR
WHATEVER YOU MAKE WHILE WORKING.

FORCED INTO A CAR LIKE SO MANY OF US? A
SHORTSIGHTED PERSON WOULD SAY "THAT'S A
\$30K CAR!" IT IS THE NUMBER OF MILES
OVER VEHICLE LIFETIME, VERTICAL GROUND
CLEARANCE AND OVERALL HEIGHT, AVERAGE #
OF PEOPLE CARRIED EACH WEEK, TOWING
CAPACITY, FUEL INJECTION / AIR SYSTEM,
ABILITY TO SLEEP INSIDE, AND EXPECTED
DESTINATION(S) THAT ACTUALLY MATTER.
ANYONE WHO FOCUSES ON A DOLLAR VALUE
ALONE IS BEING CLEVER WHILE THROWING OUT
A RED HERRING. MAYBE A \$5K CAR WORKS
JUST FINE, PROBABLY NOT OVER THE LONG
RUN. A TRUCK WITH A SECURE COVER WORKS
WELL FOR SECURITY BUT IS GENERALLY MORE
EXPENSIVE THAN \$30K - PLAN FOR THEFT AND
BROKEN WINDOWS. BUY USED, LOOK AT FLEET
VEHICLES (HIGH MILEAGE & AVAILABLE.)

THE CHEAPER VERSION IS CERTAINLY A VAN
WITHOUT WINDOWS (SPRINTER OR OTHERWISE)
MAYBE A TRUCK WITH A HARD LID ON THE
TAILGATE OF A DIESEL WITH A TURBOCHARGER
AND A ROOF-RACK, OR A HYBRID / FLEX-FUEL
WITH OR WITHOUT GROUND CLEARANCE -
FRANKENSTEIN AWAY OR FIGURE IT OUT.
LEXAN OR SHEETMETAL WINDOW REPLACEMENTS
MIGHT ALSO WORK, ALTHOUGH AT SOME POINT
THERE ARE CONCERNS (VOICED OR UNVOICED)
ABOUT WHETHER IT IS BETTER TO BREAK A
WINDOW OR HAVE IT WITHSTAND MORE FORCE
AND THE EASE OF DRILLING. PERSONALLY -
I PREFER POLYCARBONATE "LEXAN" AT ABOUT
1/4 INCH *REDUCES WARPING* AND SHEET
METAL BUT IT IS NOT NECESSARILY MORE
SECURE OR EASY TO WIND/WATER SEAL, AND
A TRUCK WITH CAMPER SHELL IS ABOUT
EQUIVALENT TO THE VAN, BUT WITH MORE
TOWING CAPACITY. SHORT ANSWER:
TRUCK/VAN/SUV ARE EASIER THAN OTHERS.

MORE IMPORTANTLY - FIND A WAY TO LAY FLAT OR WITH YOUR FEET ELEVATED IN A CAR
AND AT HOME. OTHERWISE YOUR CALVES AND FEET WILL SWELL IF YOU MAINTAIN A
SITTING POSITION WHILE SLEEPING.

SAME FOR A RECLINER AT HOME. MAKE SURE YOU SLEEP HORIZONTAL. / FLAT OR YOU
WILL HAVE SEVERE CIRCULATION PROBLEMS AND PROBABLY SOMETHING WRONG WITH YOUR
LYMPH SYSTEM. THIS GETS WORSE WITH ALCOHOL.

THE STUFF ON TOP OF
THE CAR
+
THE STUFF IN THE CAR
(LISTS & PICTURES OF
WHAT YOU DON'T NEED)

BECAUSE YOU PREFER TO LIVE OUT OF A
DISPOSABLE WATER BOTTLE.

USE THE RESOURCES,
USE THEM RESPONSIBLY,
AND WITH CAREFUL CONSIDERATION.

EX. LIGHTS ON WHEN IN ROOM, OFF WHEN OUT
OF IT; FLUSH THE TOILET; EAT YOUR FOOD;
RECYCLE; RIGHT TOOL FOR THE JOB; MEASURE
ONCE CUT TWICE, USE A WASHCLOTH, ETC.

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SHEET NUMBER:
3 PARKING SPACES & NAKED OR EQUIPPED

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300X3 CAN BE DONE WITH WHAT YOU HAVE,
OR NAKED +/- ... VIA CON DIOS VAQUERO.

OTHERWISE, I AM TRYING TO DO IT WITH A LITTLE COMFORT AND LONGEVITY INSTEAD OF AS A "FLASH IN THE PAN." TRIAL & ERROR-ING THROUGH THE ITEMS BELOW WHILE WORKING TO SUPPORT OTHERS WHO WANT TO BUILD TOGETHER, LEARNING FROM THOSE WHO TELL THE TRUTH, AND LEARNING WITH PEOPLE WHO ARE DOING OR HAVE DONE "IT" CLOSER TO BARE BONES ALONG THE WAY. THE SAME METHOD IS INTENDED TO CREATE A DIFFERENT KIND OF SAFETY NET BY SELF RELIANCE AND A LOW COST WAY TO LIVE. UNFORTUNATELY - LAND/ZONING IS AN ISSUE, AND DOING THIS WORK IN AN URBAN ENVIRONMENT CREATES GREATER CHALLENGES TO PRIVATE AND PUBLIC CORRUPTION THAT SUPPORTS SOCIETY AS WE KNOW IT.

PROPOSAL: THREE PARKING SPACES WORTH OF LAND ZONED "LIVE/WORK", WITH UTILITIES AND ROADS RUN TO THEM. ALL TAXPAYERS ALREADY PAY FOR 3 PARKING SPACES TO OWN, BUT IF YOU HAVE NOT PAID TAXES - THEN WHY FORCE OTHER PEOPLE TO AND HOW COULD YOU POSSIBLY EXPECT THIS TO BE PROVIDED FOR YOU? BECAUSE I DON'T BELIEVE IN SPIRITUAL GAMES AND DOING GOOD WORKS WHILE FIGHTING THE FUNDAMENTALS OF LAND LAW IN ONE WAY THEN STILL USING THAT LAW TO ONE'S BENEFIT IN OTHERS. WE MUST ALIGN TO THE U.S. CONSTITUTION AND AN ETHICAL CODE. ARE YOU A REAL WORLD SUPERHERO, OR A BULLSHIT ARTIST LOOKING FOR A FREE RIDE WHILE PRETENDING THAT WHATEVER YOU ARE DOING EVERY DAY IS SOME KIND OF WORK? I ASK MYSELF THE SAME QUESTION - IS ANY OF THIS VALUABLE AND DO I DESERVE THOSE PARKING SPACES? ALONG WITH: "WHY ARE THEY NOT ALREADY ZONED LIKE THAT?" LIVE/WORK, 800 SF, ROAD AND UTILITY ACCESS, SUN.

THESE ARE NOT DIFFICULT CONCEPTS. BUSINESSES AND GOVERNMENT ARE ALREADY FORCING WORSE LIVING CONDITIONS THROUGH HOT-BUNKING ON A WARSHIP, DIGGING> FIGHTING> SHITTING IN A FOXHOLE, LIVING IN A COFFIN HOUSE, OR SLEEPING ON A PLANE, IN A CHAIR, OR DUPLICITIOUSLY IN HOTELS AS WELL AS A HOME - ALL ON A DAILY BASIS. THERE IS A GARBAGE PILE LEAP OVER THAT, AND OUR CURRENT HOUSING SF ZONING LAWS WITH THE ADDITION OF ALTERNATIVE DWELLING UNITS TO EXISTING PROPERTIES AND RELATED LAWS. CURRENT SLEEPING ARRANGEMENTS AND ZONING LAW ARE A FARCE THAT PREVENTS WORK, THEY DO NOT ENABLE IT. THOSE ALTERNATIVE DWELLING UNITS ARE BEDROOMS, NOT LIVE-IN WORKSHOPS. ALTERNATIVE DWELLING UNITS DON'T ALLOW FOR WORK - ESPECIALLY NOISE OR MATERIAL RECEIPT AND SHIPMENTS THAT ARE REQUIRED FOR ANY KIND OF PRODUCTION. THEY DO NOT SUPPORT AUTONOMY AND THE DEVELOPMENT OF WEALTH - THEY CREATE SLAVES AND EMERGENCY HOUSING FOR CHILDREN ALONE WHILE PREVENTING NEW BUSINESSES FROM COMPETING WITH EXISTING ONES. ARE YOU INVESTING IN A NEW INITIATIVE, OR AN OLD ONE - OLD ONES ARE BIGGER AND SOMETIMES WORK BETTER, NEW ONES ARE TYPICALLY SMALLER AND CAN BE VERY BUGGY. MAYBE THE COLOR OF A CORPORATE LOGO DECIDES IT... OR NOT.

PACKAGE RECEIPT

NEED STUFF? TRY GENERAL DELIVERY AT A POST OFFICE IF YOU PURCHASE ONLINE, BUT THAT'S FEWER LOCAL JOBS TO SOME DEGREE. MY TOUGHEST FIND WAS A SOLAR CHARGE CONTROLLER FROM LOWES AND SOLAR PANELS, PANELS THEMSELVES WERE BOUGHT USED. A LOCAL BUSINESS MAY "SPECIAL ORDER" THEM, OR IDEALLY WILL LET YOU USE THEIR ADDRESS WITH YOUR NAME AS "ATTN."

SHOPPING LOCATIONS BY PREFERENCE:
(WHAT'S ON "MAIN STREET?..."

SWAPMEETS & SPECIALTY SWAPMEETS:
1. SPECIALTY SWAPMEETS & LOCAL BUSINESSES ARE FOUND THROUGH THEIR RELATED LOCAL FORUMS/ORGANIZATIONS.
2. LOCAL STORES, FOUND WHILE WALKING AND BIKING, WORD OF MOUTH, OR MAP SEARCH ONLINE. LOWER RATINGS = NEWER BUSINESS.
3. AMVETS AND OTHER THRIFT STORES. IN SD AMVETS IS BIG ALONG WITH GOODWILL.
4. SECOND HAND: OFFERUP, CRAIGSLIST, EBAY. OTHERWISE, LOCAL "IN THE BACK."

MALL:
1. BIG LOTS - GOOD RANDOM SELECTION, NOT THE CHEAPEST, BUT COVERS MANY THINGS.
2. LOWES - SOME SOLAR CHARGE CONTROLLERS, HARD TO FIND OTHERWISE.
3. COSTCO - HOTDOG & DRINK, AGM CAR BATTERY, GAS, TORTILLAS/BREAD, PEANUT BUTTER, ALMONDS, PREMIER PROTEIN, HONEY. OK CLOTHES (THRIFT IS BETTER), MEMBERSHIP @ \$60. I SWITCHED TO ALDIS.
4. SMART & FINAL - \$10 SALAME, \$1 PASTA.
5. WALMART - WATERPROOF PAPER, CHEAP WATCH, FOOD, MISC. GENERALLY A PITA.
6. REI - AVOID MUCH OF THIS (NOT FOR EXTENDED OR HIGHER CAPACITY USE.) THE RIGHT STUFF IS DEFINITELY MIXED IN, EG. SEAL LINE DRYBAGS, THIN TOWELS, STOVE?
7. AMAZON.COM (MOST THINGS - RESEARCH HERE, BUY ELSEWHERE.)
8. NEWEGG.COM (MANY THINGS)

9. LITHIUM AA RECHARGEABLES ARE IMPOSSIBLE TO FIND LOCALLY, GET THEM ONLINE OR IDENTIFY A RECHARGEABLE TOOL BATTERY WITH *NEAR* AA SIZE (AKA: R6, 15, UM-3, JIS, D13, U12, U7, HP7) AND REMOVE THE CELLS, THEY ARE SIMILAR TO AA SIZE AS "18650" A LITTLE LARGER. BE CAREFUL WITH RECHARGING.

THE 99 CENT STORE AND THE DOLLAR STORE - BREAD FOR AS LOW AS \$1.25, AND BOLOGNA FOR \$1, PLUS CANDY, CHIPS & 2 LITER BOTTLES FOR \$1.25 GOLD. OTHERWISE - ALDIS FOR CHEESE, AND SMART + FINAL FOR CAN RECYCLING (UP TO 60) AND FRUIT.

I SINCERELY HOPE THEY KEEP SOME SALES GOING - THERE WERE *ALWAYS* PEOPLE INSIDE. COSTCO IS NICE, BUT COSTS 3X AS MUCH.

"NOT BLACK ENOUGH FOR YA?": WATER, FOOD, CLOTHES, SHOES, POT, HEAT, LIGHT, KNIFE, BLANKET, ROPE, BAG... WHATEVER, I'M NOT A BIRD, I'M NOT AN APOSTLE/PROPHET/GOD (NO-ONE HAS BEEN SINCE CHRIST'S TIME).

I AM A SINNER - I USE THINGS TO HELP MYSELF AND OTHERS, AND I HAVE PREFERENCES BASED ON WHAT IS AVAILABLE / UNDERSTOOD. MY FLESH DIES, MY WORK + THINGS OFTEN REMAIN AS *MY CALLING - UNTIL THEY DON'T, AND UNTIL IT ISN'T, BECAUSE I FINALLY REALIZE THERE IS A BETTER WAY/ROAD FOR ME/US. SAME FOR YOU!

FRONT BAG: CHESTPACK

REFURBISHED LAPTOP:(\$200) USB-C CHARGING, EXTENDED BATTERY, ~500GB SSD, ~10+GB MEMORY, ~8.5X11, PHILIPS SCREW HEADS, MULTIPLE SIMULTANEOUS OS'S. WHY: FAST, ON ALL THE TIME, EASY MAINTENANCE, LOW WEIGHT, REPLACEABLE 240W CHARGER, COMMON SIZE, NEEDS A TIGHT WATERPROOF SLEEVE (PLASTIC TAX ORGANIZER/SLEEVE?)

POUCHES:

MULTITOOL, BUTANE LIGHTER, FLASHLIGHT.

IT TOOLS: USB DRIVE KEYS (A&C COMBO), CHARGING/DATA CABLES, SMALL WIRED HEADPHONES, USB-C DOCK WITH MANY PLUGS, WIRELESS MOUSE (BLUETOOTH W/ 2.4 GHZ USB & DPI CHANGING.)

CUTLERY: BOWL, LONG TEA SPOON, THROW-AWAY CHOPSTICKS.

NOTES: FINE TIP SHARPIES, INDEX CARDS, SURVIVAL PEN (USE OLD FOUND INK, ETC.)
ADDITIONAL BIKE GEAR: HEADLAMP 1 WHITE (FORWARD), HEADLAMP 2 RED (BACK) OR A COMBINATION FRONT AND REAR LIGHT.

BATTERY CHARGER: AA, AAA, LITHIUM POLYMER, USB PLUGS TO CHARGE, HARD TO FIND US MADE, WE SELL THEM AS LARGE BATTERY PACKS ONLY - NOT COOL.

HAND SANITIZER: AT EXTERIOR FOR EASE OF USE, MAKE WITH RUBBING ALCOHOL + ALOE. VODKA HAS CALORIES AND GETS STICKY.

JAR A - SNACKS/FOOD: REPACK DAILY.

JAR B - MISCELLANEOUS TOOLS: SEWING POUCH (SUTURE NEEDLE, FISHING LINE, BUTTONS), LG BANDAGE SCISSORS, FINE SANDPAPER, SOLDERING IRON, SOLDER, ALIEN BIKE/ALLEN MULTI-TOOL, CHAPSTICK, SMALL CRESCENT WRENCH, GATOR MULTI SOCKET, SMALL TOOTHBRUSH (CLEANING), TIRE PRESSURE BLEEDER, DUCTTAPE, BINDER CLIP, RV TAPE PATCHES, EXTRA ALLEN WRENCHES.

FIRST AID KIT: ADVIL, ANTIBIOTIC OINTMENT, BAND-AID, TWEEZERS.

REAR BAG: DRYBAG

THERMOS + CUP: HORIZONTAL AT BOTTOM WITH CARIBENERS - ALLOWS FOR POURING INTO A CUP WHILE ATTACHED.

MESH BAG: SMALL SODA BOTTLE OF DISH SOAP (FOCUS ON THE LIDS OF ALL BOTTLES + PROPITIATION), DEODERANT (SECOND INNER CAP PREVENTS MELTING/RETAINS SHAPE), NEONATAL BULB/ ASPIRATOR (EAR CLEANING)

CAMPING TOWEL: SELF + WRING DRY CLOTHES INSIDE A TOWEL WRAP TO REMOVE MORE H2O.

CLIPS: CHESTBAG CLIPS - MOVE TO SHOULDER STRAPS OF DRYBAG, LARGE CARIBENER AT TOP OF BAG TO HANG AT CAR/TOILET/ETC (DOOR/HANDLE/HOOK OR LUGGAGE RACK *ADD A PARACORD LOOP TO HANG IT.)

FOLDED SOLAR PANEL: USB POWER WHILE WALKING - ONLY USEFUL IF YOU STRAP IT TO THE OUTSIDE OF THE PACK, OR ARE SOMEWHERE IN SUN ALL DAY (NOT OFTEN IDEAL, SHADE IS PREFERRED.) THEREFORE - GENERALLY USELESS UNLESS ON TOP OF A VEHICLE, PONCHO/BLANKET, OR A ROOF.

~2 LITER BOTTLE WITH LARGER DIAMETER SPECIALTY LID: FOR WASTE LIQUID, LARGER CIRCUMFERENCE, OPAQUE/NOT CLEAR = FEWER QUESTIONS, OR PITCHER WITH A FLAT EDGE (FEMALE OR SMALL PERSON WITH BAD AIM.)

PLASTIC JARS/CONTAINERS OR RE-USED BAGS
*LOCKING = WATERPROOFING, ORGANIZATION, PROTECTS A RUBBER BAG FROM SHARP PENETRATIONS + RAPID LOAD/UNLOAD. SHOW UP, UNLOAD JARS, SEE WHAT YOU HAVE AND USE IT, THEN TOSS IN BAG AND LEAVE. LOCKING LIDS ON CLEAR CONTAINERS ARE FOR FOOD/LEFTOVERS, USED FOOD BAGS WITH ZIPPERS ARE STRONGER THAN ZIPLOCS.

JAR C - TOILETRIES: SONICARE TOOTHBRUSH, TOOTHPASTE, SUNSCREEN, COMB, WATERPROOF TRIMMER (AA IS GREAT, BUT RARELY WATERPROOF BECAUSE OF POORLY DESIGNED/MADE BATTERY HOUSINGS), NAIL TRIMMER, SHAVING RAZOR (TRAVEL HANDLE, MACH 3 LASTS LONGER, VENUS IS SHORT AND LIGHT BUT EXPENSIVE - SHARP RAZORS THAT LAST LONGER,) SHORT TOOTHBRUSH = NAIL CLEANER.

JAR D - CLOTHING: SOCKS AND UNDERWEAR

JAR E - TOILETPAPER

JAR F - GLASSES AND SUNNIES: CRUSHPROOF

JAR G - HEAVIER COMPUTER GEAR: USB CAMERA, MULTI SOCKET HARDDRIVE READER/DATA RECOVERY, USB VOLTAGE ANALYZER FOR HIGH WATT PLUGS & CORDS.

JAR H - FISHING: BOBBERS, REEL+LINE, HOOKS, POWERBAIT, WEIGHTS, LURE (SHINY)

BUCKETS: YOU CAN CHEAP AND DO SO I

EASY ANSWER - "YOU HAVE A BUNCH OF STUFF/IDEAS, YOU NEED MORE BUCKETS!" - STUFF GOES IN BUCKET, STUFF GETS ORGANIZED/USED/SOLD, OR STUFF GOES IN BINS FOR TRANSPORT. ROD BETWEEN FOR CARRYING 2-4+ BUCKETS. RE-USE BUCKETS.

2 FIVE GALLON BUCKETS: PLASTIC, LIDS. ALTERNATE: VERY LARGE POTS WITH LIDS.

1 STRUCTURAL LENGTH/STICK: WITH HOLES, UNISTRUT, SHOVEL/HANDTOOL POLEARM, PIPE, WALKING STICK, SPEAR (1/2 & REMOVE TIP.)

1 REEL OF TIEING MATERIAL: WIRE, ROPE, TWINE, FISHING-LINE, PARACORD, SPEARFISHING LINE.

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SHEET NUMBER
STUFF FOR: WALKING (BAGS & BUCKETS)

CREATED ON: 2023.08.15
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WHY THESE THINGS, SOME USE CASES

HARD TO FIND THE PREVIOUS LIST OF ITEMS SOMETIMES. OTHER TIMES, THEY ARE READILY AVAILABLE FOR SALE, AS WE WALK, OR ARE GIVEN AWAY AT SPECIFIC LOCATIONS. SOMETIMES YOU HAVE TO GO FURTHER OUT TO FIND THEM. RELYING ON GOVERNMENT FOR GOODS IS UNWISE, THEY EITHER HAVE THE WRONG STUFF, THE WRONG QUANTITY, OR IT'S OLD AND MILITARY ISSUE (DOESN'T MEET CIVILIAN OR COMMERCIAL NEEDS) - OFTEN POSSIBLE TO GO G.I. JOE/JANE, ALTHOUGH THAT RESULTS IN BEING ABSORBED BY THE SURROUNDING CULTURE ALONG WITH THEIR STUFF "WHATEVER THEY WILL GIVE ME."

THERMOS: CARRY HOT WATER, BOILING TAKES A LONG TIME. CARRY CLEAN HOT WATER AFTER BOILING, DRINK IT TO STAY WARMER. A MATCHED CUP IS INVALUABLE, ADD A DECENT LID TO COOK SLOWLY INSIDE OF IT OR USE A BOWL WITH ONE AS A CUP. THIS MAKES COOKING EASIER AND HELPS TO ISOLATE HEATING WATER FROM COOKING. BETTER FOR CLEANING, PREVENTS BURNING, ISOLATES CONTAMINANTS (MOUTH BACTERIA) FROM THE FOOD VESSEL. CONNECT THE THERMOS AND A SECOND COOKING VESSEL WITH CUSTOM LIDS PLUS A STEAM LINE AND YOU HAVE THE BEGINNINGS OF A COOK/CHILL SYSTEM: THINK DIMSUM OR STEAMER BASKET (PART 3 HAS AN EXAMPLE AS THESE ARE NOT COMMONLY AVAILABLE.)

WATER BOTTLE(S): ONE UNINSULATED STAINLESS BOTTLE FOR BOILING (NALGENE THREADS FOR ACCESSORY CAPS.) ONE INSULATED, VACUUM SEALED, WITH A LID AS A CUP - FOR HOT WATER TO EAT AND DRINK WITH (THERMOS ALTERNATE.) ONLY FILL WITH HOT WATER TO REDUCE CLEANING NEEDS. ~~PLACE~~ DRINK MIXES INTO THE CUP. TIE ON AN OLD DIGITAL WATCH FOR A WALL CLOCK.

CLEAR BOTTLES & PLASTIC, NOT GLASS!
GLASS BREAKS OR CAUSES SEVERE HARM WHEN BIKING / WALKING OR WHILE TOSSING A BAG DURING REGULAR USE. PEANUT BUTTER JARS ARE COMMON. SEE WHAT IS IN YOUR BAG QUICKLY BY PULLING OUT JARS. KEEPS YOUR BAG CLEAN. WATERPROOF WHAT YOU ARE CARRYING. SEPARATE LIQUIDS FROM DRY. LONG BOTTLES MAKE GREAT HOLDERS: TOOTHBRUSHES, BOTTLEBRUSHES, ETC.

HEAVIER WATERPROOFING SHEET: TRASHBAG, TARP, PONCHO, TENT, CAR COVER; FOR WARMTH, WATERPROOFING, TRASH/RECYCLING. RUBBERIZED WORKS WELL (HEAVY.)

CARABINER & ELASTIC LOOP WITH BLACK BALL
HANG BAG BETWEEN ANY DOOR AND FRAME, OR FROM SMALL LOOPS AT A VARIETY OF PLACES EX: TOILET. STRONGER THAN A HAIR TIE.

BUCKETS & LIDS: FOR FOOD AND CLOTHING, ETC. STAY DRY AND PROTECT THE CONTENTS FROM INSECTS OR ANIMALS. CARRY: FRESH WATER, CLOTHES, FOOD, MATERIALS, ETC. LAYER INSIDE WITH PLASTIC BAGS FOR ORGANIZATION AND MANAGEMENT OF SMELLS.

DRYBAG OR BUCKET: WASH CLOTHES IN, ORGANIZE/CARRY, KEEP DRY, GATHER/STORE. PLASTIC BAG (RIPS) OR A JAR WORKS TOO.

WHEELS FOR EXTENDED HEAVY CARRY.
SHOPPING CARTS ARE NOT GOOD DUE TO SMALL WHEELS AND HILL ISSUES, A PANELIZED BACKPACK WITH WHEELS AND TIE-ONS = HEAVY CARRY OR EVEN A CARCASS + A SALT BUCKET (THINK HUNTING, I'M NOT A HUNTER...)

SPEARFISHING LINE, TIE WIRE, AND PARACORD: SPEARFISHING LINE IS ROPE THAT THREADS LIKE TWINE OR THREAD AND THAT IS POUND RATED. TOUGH STUFF. PARACORD - SAME, BUT THICKER AND STRETCHES.

FOUR FOOT POLE WITH 1/4" + HOLES EVERY FEW INCHES OR SIMILAR - I PREFER SOMETHING COLLAPSIBLE AND THREADED (ALUMINUM OR STEEL, THIN ALUMINUM WILL CRACK / RIP.) HIGHER WEIGHT = THREADS BREAK OR END OF POLE CRACKS. THICKER WALLED ALUMINUM WITH THREADS IS IDEAL (STRENGTH VS WEIGHT.) UNISTRUT WORKS GREAT AS WELL AND IS CHEAP. COMPOSITE UNISTRUT IS AN OPTION FROM A DUCT/ MECHANICAL/ PIPE STORE. TIE TO POLE.

SHARPIE: WRITE ON ANYTHING, ADD INSTRUCTIONS FOR COMMON ITEMS.

MULTITOOL: MOST RUST AND REQUIRE WD40. PLIARS FOR REPAIRS. TRUTH - AVOIDING TOOLS DOES NOT MAKE WORK GO AWAY, IT JUST MAKES MAINTENANCE PILE UP AND COST MORE. *INTENT* IS WHAT MATTERS, THE MULTITOOL COMBINED WITH THE INTENT OF "HELP PEOPLE OUT" GETS THINGS MOVING. **GIVE ONE AWAY, OR HELP THEM FIND THEIRS!**

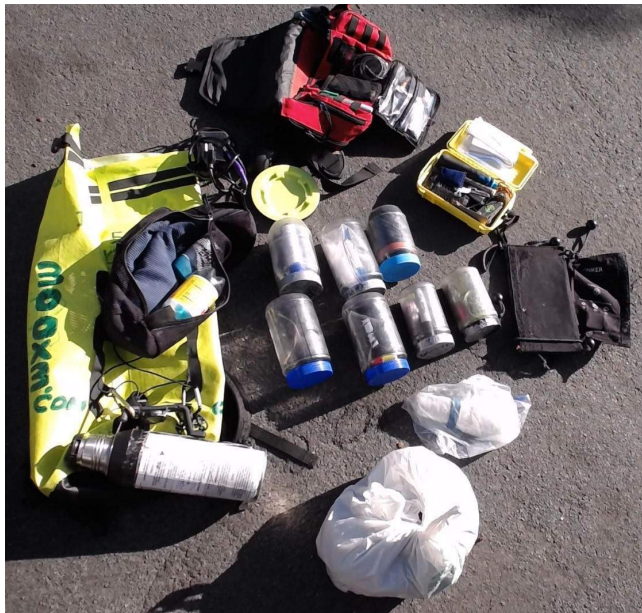
CARABINERS & TIES: (ATTACHMENTS TO BAG) 3 PLASTIC BAGS, HEAVIER (SMART AND FINAL, VONS, DOLLAR TREE, 99, ETC.) - SEPARATE CLOTHES IN A LARGER BAG + WASH CLOTHES WITH DISH SOAP. ALSO, ORGANIZATION IN A BUCKET OR BAG. SPEAR FISHING LINE, PARACORD, OR SHOE LACES.

WATER (HEAVY)

2 LITER BOTTLES: FOR EXTRA WATER (1 TINY DROP OF BLEACH IF LONGER-TERM.) I DO LISTERINE DROPS BUT IT SEEMS TO KILL GOOD STOMACH BACTERIA, USE LESS.

HEAVY PLASTIC BAGS OR STRONG TARP: TRASH, INSULATION, GROUND/ROOF COVER.

RUBBER SHEETS: RUBBER CEMENT BIKE TUBES INTO SHEETS (PONCHO, GROUND COVER, TENT)



CLAMSHELL - EASIER TO GET THING IN AND OUT OF THAN JARS. PLASTIC BAG /JAR = SOME WATERPROOFING. ADD CAULKING (OR LATEX PAINT) TO THE UNDERSIDE OF THE LIDS AND DUCT-TAPE ON TOP. THE CAULKING WON'T STICK ENTIRELY, BUT IT WILL CREATE A RUBBER-LIKE SEAL. GASKET MATERIALS ABOUND - LOOK FOR A GOOD ONE. FOCUS ON THE LIDS!

WHY NOT RUBBER? - WEIGHT AND HOLES FROM BIG SHARPS - IF YOU ARE CARRYING A TON OF AMMUNITION OR SHARP FIREWOOD, THIS BAG WILL PROBABLY FALL APART UNLESS YOU PLACE IT IN SEPARATE PLASTIC CONTAINERS / CLIPS... (I DO BOLTS AND BB'S AT THE MOST - LIGHTER.) YOU CAN CARRY A 20+ GALLON DRY BAG OF WATER OR PALM FRONDS AS WELL. H2O IS HEAVY, THE WATER MOVEMENT MAKES IT IMPOSSIBLE TO STAND OR WALK FAST - TRY IT ON THE BEACH, THE WATER IS FOR COOLING SAND TO LAY ON... OR A SAND CASTLE. GO RUBBER.

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ANY CHESTPACK - THINNER IS EASIER TO CARRY (TIGHTER TO BODY), BUT WILL NOT HOLD MANY THINGS. REMOVE FRONT SATCHEL SHOULDER STRAP AND ATTACH THE STRAP CLIPS TO A DRYBAG BACKPACK FOR QUICK REMOVAL OR SEPARATE CARRY, USE KEYRINGS AND EXISTING BAG STRAP TO RETAIN SEPARATE CARRY OF CHESTPACK ALONE. THE CHEST PACK IS GREAT FOR PROFESSIONAL ITEMS, MONEY, AND PAPERWORK - TECH, TOOLS, MED SUPPLIES, SNACKS. PLASTIC JARS INSIDE ORGANIZE & WATERPROOF.

DRYBAG - STAYS DRY, DOES NOT CATCH ON BRANCHES, FLOATS, DOESN'T SMELL LIKE B.O. FROM SWEAT LIKE VINYL/CANVAS, CAN CARRY A LARGE AMOUNT OF WATER (5 GALLONS+), GREAT FOR WASHING CLOTHES INSIDE. A CAMPING, BOATING, OR STUDYING BACKPACK WHEN COMBINED WITH CHESTPACK.

SECONDARY SATCHELS AT BACK: MESH BAG (TOILETRIES), FOLDABLE SOLAR PANELS ARE EASILY DAMAGED AND NEED A CAN TO WRAP INTO QUICKLY, RADIO.

RUBBER DRYBAGS ARE VERY DURABLE - PATCHING WITH RUBBER CEMENT / SUPERGLUE AND A SECOND PIECE OF RUBBER OR VINYL (BICYCLE TUBE) - EPOXY MAY WORK, I HAVEN'T HAD GOOD LUCK WITH IT & RUBBER.

MISSED BUSINESS OPPORTUNITIES: SMALL EQUIPMENT VENDING, "BUT THE REAL VALUE IS IN PEOPLE, COMMUNICATION, AND TEAM BUILDING;" OK, I ALSO MEET A FEW PROBLEM "CHILDREN." REGARDLESS - A DRYBAG AND CHESTPACK ARE #1, A BICYCLE OR 3-4 WHEELER IS #2 (FOR DISTANCE AND HAULING CAPACITY), AND LARGER DRYBAGS ARE #3. HOT WATER FROM SOLAR IS ALSO IMPORTANT. "ELECTRON TRANSFER" BY USB-C AT 240W IS BEST FOR MULTI-USE (DOUBLE UP HEATERS WITH A SOLAR THERMOS (EXPENSIVE.))

SHEET NUMBER:
 STUFF FOR: WALKING (DOUBLE BAG CARRY)



HEATING ELEMENT + CABLES - DIRECT HEATING FROM STANDARD SOLAR. WATTAGE ON THIS IS 220 VS 120 ON PANEL. HEATS PATHETICALLY. ADD A DIAL, CAPACITOR, AND CHANGE VOLTAGE / AMPERAGE FOR BETTER FUNCTION.



"I LICKED IT SO IT'S MINE"
 1. THE HUMAN BODY AND ITS FLUIDS ARE WORTH MORE THAN MONEY, DON'T SELL YOUR BODY.
 2. THE HUMAN BODY HAS GERMS AND BACTERIA - MAINTAIN WHAT YOU OWN, WEAR, TOUCH, AND LICK.
 3. SEXUAL RELATIONSHIPS = SWAPPING SPIT, MAINTAIN OWNERSHIP OF EACHOTHER, PURSUE 1 MARRIAGE.
 4. IF YOU BEAT SOMETHING UP OR DESTROY SOMETHING OR DO IT REALLY WELL (SLANG FOR "LICKED IT") THEN YOU OWN IT AND MUST SHARE IT OR TAKE RESPONSIBILITY FOR IT.
 THAT IS WHAT THIS MEANS.

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INSULATED POT OR THERMOS WITH CUP: ADD REGULAR PASTA (SMALL SHAPES FOR A LONG SPOON ARE EASIER TO EAT.) ALTERNATE: JAPANESE 12V COOKER / BENTO OR IDEALLY A SMALL INSTANT POT (1000 WATTS REQUIRES A LARGE INVERTER AS WELL AS A BIG BATTERY.) ALSO - DO NOT DEPEND ON LISTED PEAK WATTAGE, APPLIANCES DON'T ALWAYS WORK AS SPECIFIED. THE TRICK: BOILING WATER (HEAVY BOIL) + GOOD INSULATION AND A PRESSURIZED POT = COOKED. **A HEATING ELEMENT BY ITSELF AND A RUBBER STOPPER IN A VACUUM SEALED BOTTLE CAN WORK.** INSTANTPOT IS OK, BUT IT'S NOT ENTRY LEVEL OR EASILY TRANSPORTABLE BECAUSE OF THE HIGH POWER REQUIREMENT AND POOR INSULATION.

TOILETRIES: VASELINE OR BODY POWDER FOR RASH AT GROIN, PITS & TITS, DAWN SOAP, MACH RAZORS (LAST A LONG TIME), TOOTHPASTE, PRENATAL VITAMIN (IRON NEEDED FOR BLOOD DONATION), PLASTIC LETTER SHEETS (RESUME/FLYER), NEONATAL BULB (EARWAX REMOVAL - NOT PAPER/Q-TIP), FLOSS, SANITATION WIPES (RIP TOP & PLACE IN A PLASTIC JAR), ELECTRIC TOOTHBRUSH. SONICARE: THE DIFFERENCE BETWEEN HAVING TEETH AND NOT HAVING TEETH. DEODORANT NON MELTING, THE INNER PLASTIC LID KEEPS IT FROM MELTING INTO A MESS. HAND SANITIZER OR RUBBING ALCOHOL: SKIN, CONTAINERS, MISCELLANEOUS AREAS. USB RECHARGEABLE LIGHT: 1 WHITE, 1 RED OR IDEALLY A COMBO (BIKING.) SQUIRTGUN: FOR AGGRESSIVE ANIMALS. COFFEE FILTER: DIRTY WATER FILL TO ANOTHER FILTER. SMALL BIBLE - FROM GIDEONS. I STRONGLY PREFER A LARGER ESV LUTHERAN STUDY BIBLE TO ANY OTHER ONE THAT I HAVE READ. BUTANE LIQUOR STORE "TORCH LIGHTER": BEST WIND RESISTANCE BY FAR. PLASTIC CRème BRULEE STYLE (NOT A FANCY ONE.)

CLOTHING: THIN LAYERS

1. EASIER TO WASH ONE GARMENT AT A TIME AND WRING IT OUT, THICK LAYERS = WET.
2. EASIER TO FIND THIN CLOTHING.
3. STINKS LESS, THICK CLOTHING HAS MORE ROOM TO HOLD BACTERIA AND LIQUID.
4. WARMER (INSULATING LAYERS)
5. TEMPERATURE MANAGEMENT (PEEL OFF INDIVIDUAL LAYERS WHEN HOT.)
6. AVOID COTTON AND JEAN - HOLDS WATER, BACTERIA, AND DRIES SLOWLY.

LESS PLASTIC, PLASTIC SMELLS & MELTS

THIN LONG-SLEEVE HOODIE WITH POUCH: WASHABLE, UNDER OR OVER, QUICK CARRY TOILETRIES, MERINO WOOL.

UNDERSHIRT/TOP: SLEEVELESS, HIGHER QUALITY = WEAR WITHOUT AN OVERSHIRT.

RUNNING SHORTS WITH BREATHABLE LINERS: UNDERWEAR AND SHORTS, MID-THIGH.

THIN PANTS WITH SIDE POCKET(S): FOR HAND WASH, AND KEY + RAG CARRY.

LEGGINGS: WARMTH UNDER PANTS.

OVERALLS: GREASE/WORK.

BELT & BUCKLE: 2 HOLES ALL ALONG (LESS LEATHER, WOVEN NYLON FOR H2O.)

4 PAIRS SOCKS: THINNER, LESS/NO PLASTIC

COLLARED SHIRT: 2 POCKETS, BUTTON UP OR POLO. DOUBLE BREASTED POCKET PREFERRED.

RAGS: ADD EYES OR TIE-ONS (KEYS *LESS LOSS, BODILY FLUIDS, TRANSPORTATION

CLEANING, FOOD CLEANING, ETC.)

GATOR: HAT & FACE (DUST, SUN, COLD.)

WALLET: MORE PLASTIC FOR SWEAT AND WET, KEEP MONEY DRY - LEATHER WETS THROUGH.

CHANGE PURSE: MESH TO SEE AMOUNT.

GOOD COMBO LOCK(S)

SUNGLASSES: WITHOUT CHROME FINISH (RUBS OFF, SCRATCHES AND BLURS VISION.)

WATCH - DIGITAL, CASIO. 3 ALARMS AND TIDES. VERY USEFUL. GET EXTRA ALARMS: 2-3.

MERINO WOOL LONGSLEEVE WITH HOOD + JACKET FOR WATER AND INSULATION - DOUBLE STITCHING, TUG THE SEAMS TO CHECK THE STITCHING STRENGTH AT PITS. ADD A WATERPROOF SHELL (LOOK FOR LIGHT RUBBER AND VENTS, NOT GORETEX.) PATAGONIA/MOST PUFFER JACKETS ARE TRASH AND RIP EASILY. VENT POCKETS ARE IDEAL AS MOST FABRICS THAT BREATHE ARE NOT COMPLETELY WATERPROOF. MOUNTAIN HARDWEAR AND COLUMBIA ARE GENERALLY GOOD/DURABLE, OR GO THRIFT AND FLANNEL + RAIN SLICKER (HEAVY.) LIGHTWEIGHT & THIN LAYERS = ABLE TO WASH IN A SMALL JAR OR BAG INDIVIDUALLY - EVEN DAILY.

SHOES (2 GOOD PAIRS)

ONE PAIR WALKING/GYM/RIVER SHOES WITH CLIPS. SANDALS ARE THE EASY OPTION, WATER SHOES WITH BIKE CLIPS THAT YOU CAN RUN IN ARE GOLD, PLATINUM IF THEY SOMEHOW REMAIN STYLISH.

FRONT, BACK, AND ANKLE STRAP. ADD A REMOVABLE BICYCLE PEDAL CLIP-IN. WATER SHOES = NO STINKY SOCKS REQUIRED, OK FOR CASUAL USE AND GYM / BIKE. ALSO NEEDED FOR: SHOWER, FEET DRYING & CLEANING.

FLIP-FLOP SANDALS AT A MINIMUM (KEEP FEET DRY AND CLEAN MORE OFTEN) OTHERWISE YOUR FEET AND TOENAILS ROT. A THIRD PAIR OF FLIP FLOPS IS WHAT I RELY ON, STILL LOOKING FOR PLATINUM.

ONE PAIR WATERPROOF BOOTS *WITH SOCKS.

ADD OIL OR WD40 FOR WATERPROOFING. QUALITY LEATHER BOOTS FOR METAL SLAG AND THE ABILITY TO DO MEDIUM TO HEAVY WORK / DRESS UP. BREATHABLE HIKING BOOTS WILL NOT LAST LONG. HIGH TOP LEATHERS SAFE-OFF ANKLES AND ALLOW FOR HIGHER JUMPS / DROPS EVEN WITH SHITTY ANKLES. THEN SWITCH TO SANDALS TO DRY AND AIR THE FEET.

BIKE & VESTING

RECUMBENT BIKE AND 4 WHEELS IS MY PERSONAL PREFERENCE, THEY ARE MORE OF A PRIMARY VEHICLE THAN A SECONDARY ONE. MORE ROOM FOR CARGO CARRYING AND STABLE, BUT TOUGHER TO FIND THAN A REGULAR BIKE. MANY THINGS HERE ARE REPEATED FROM THE DOUBLE BAG. THE VEST IS KEPT LOADED BY ITSELF SINCE IT IS FOR USE ALONE AS AN ULTRALIGHT CARRY (SPEED.)

RUNNERS VEST + DRYBAG - I TRIED THIS BEFORE STRAPPING THE CHESTPACK TO THE DRYBAG. THE VEST FITS TIGHTER AND CARRIES MORE BIKING / FITNESS RELATED ITEMS WHILE I USE THE CHESTPACK FOR I.T., TOILETRIES, AND A BOWL+SPOON. OVERALL - VEST IS GOOD FOR A RIDE, CHESTPACK IS GOOD FOR A DAILY CARRY, DRYBAG IS GOOD FOR CLOTHES/WATER/TOOLS. ALTERNATE: PANNIERS. PLASTIC JARS INSIDE THE DRYBAG MAKE SWITCHING CONTENTS RELATIVELY QUICK. GET DOUBLE STITCHED AND STRONGER FABRIC OR GOOD OVERLAP AT RUBBER.

HYDRATION BAG - (PREFER TUBE WITH LONG SOLID PLASTIC WATER BOTTLES) AND WATER PURIFIER. BAGS LEAK & STINK.

FIRST AID KIT - NEOSPORIN, CALOMINE, NAIL CLIPPERS, TWEEZERS, DUCT TAPE, ADVIL, SUPERGLUE / LIQUID BANDAGE.

MECHANIC GLOVE + CUTOFF GLOVE - FOR TOUCH SCREEN & BUTTONS IF YOU'RE USING A SMARTPHONE. OTHERWISE - A GOOD SMART WATCH SHOULD WORK WITH FULL GLOVES AS CYCLING IS VERY COLD AND IT IS USEFUL FOR DIRECTIONS WHEN TIED TO LOCUS MAPS.

HYDRATION POWDER + SALT PACKETS - FOR EXTENDED DURATION PHYSICAL EXERCISE.

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BICYCLE CLOTHES DRYING RACK AND LARGE DRYBAGS FOR "EASY PICKINGS" RECYCLING OR OTHERWISE, SPARE TIRE MOUNTS BELOW BICYCLE RACK (BOLTS ON) - COVER ALLOWS FOR SOME DRYING IN RAIN.



SOTO LIGHTER - JAPANESE STUFF IS OFTEN GOOD, BUT CAN BE EXPENSIVE. CHECK THE LIQUOR STORES, THRIFT, SWAPMEET, AND FLEA MARKETS FOR A STRONG BUTANE LIGHTER. START WITH ANY MULTI-TOOL, OR FOCUS ON STAINLESS (CHECK IT WITH A MAGNET - NO MAGNETISM = LESS/NO RUSTING.) SOG MAKES A GOOD ONE WITH PLIARS THAT WON'T LOCK UP ON YOU - WD40 GETS MY GERBER/LEATHERMAN TO UNSTICK.



SHEET NUMBER:
STUFF FOR: ULTRA LIGHT & LOCAL BUSINESS

FIRE & EMBERS! - ADD FIBERGLASS BLANKETS OVER RUBBER OR GET FANCY MATERIALS. LEATHER GETS GROSS, BUT IT IS STILL INEXPENSIVE AND READILY AVAILABLE.

TRANSPORT: WALK, BUS, BIKE, SKATE, SCOOT, LESS METRO (DOESN'T GO WHERE NEEDED OR AS OFTEN.)

THE BIKE IS THE ONLY FORM OF LONG DISTANCE LOW COST TRANSPORTATION, IT ALSO REQUIRES HIGH CALORIE EXPENDITURE. A SKATEBOARD IS ONLY AN OPTION WHEN COMBINED WITH BUS/RAIL/CAR OR OTHER MOTORIZED TRANSIT, SAME FOR SCOOTER. ALL OF THESE HAVE A HIGH LIKELIHOOD OF SEVERE INJURY. ARM/LEG/HEAD/TEETH (GET A FULL FACE BIKING HELMET OR ADD A CHIN BAR.)

LOCATION: ISO CONTAINER, CAR, ROAD, COUCH, GARAGE, WAREHOUSE, BACK OF HOUSE ROOM FOR THE NIGHT IN A STORE, NOT A ROOF OR DRAINAGE.

SERVICES

STREET: ECASSIST.ORG: PUBLIC AND PRIVATE ASSIST (AVOID GOVERNMENT FUNDING, ASK A NEIGHBOR, ASK PEOPLE WHO HAVE LITTLE AS WELL AS THOSE WHO HAVE MUCH - TREAT NO-ONE DIFFERENTLY.)

BANKING: MISSION FEDERAL (FREE CHANGE COUNTING & CASH DEPOSITS), SCHWAB (FREE TRADES - USE SYMANTEC PIN KEY), SDCCU (VARIOUS SERVICES SIMILAR TO AAA.)
3D MODELS FOR SMALL REPAIRS, TOOLS, AND GENERAL USE: STLFINDER.COM
WEBSITE: PLOUD + A PDF TEMPLATE (START WITH PAPER.)
EMAIL: AVOIDS ADS & BIG TECH - POSTEO @ \$1/MONTH.

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FOOD - CALORIES, DOLLARS AND CENTS

OVER 250 CALORIES PER DOLLAR, AND UP TO 4K CALORIES PER DOLLAR. IN CALORIES: 250 IS A HOT DOG WHILE 4K IS BAKED BREAD (SAME COST.)

COST OF PROTEIN

- 15 CENTS PER GRAM FOR NIDO CHILDREN'S SUPPLEMENT PROTEIN
- 16 CENTS PER GRAM FOR ROTISSERIE CHICKEN +/- AT 300 CALORIES PER DOLLAR.
- 10 CENTS PER GRAM FOR ISO PROTEIN POWDER
- 5 CENTS PER GRAM FOR PREMIER PROTEIN DRINKS, MILK DERIVATIVE.

NUTRITION BARS AVOIDED BECAUSE OF THE PRICE AND THEY ARE NOT AS FILLING OR AS TASTY AS RAW INGREDIENTS. CLIF BARS RATE WELL IN TERMS OF PROTEIN AND CALORIES.

COOKING

SMALL CAMPING STOVE, GREEN PROPANE: CYLINDER MATCHED TO UNINSULATED VESSEL. ALTERNATE HEAT: DC HEATING ELEMENT (CUSTOM DC ELECTRIC KETTLE) AND CAR BATTERY + LARGE SOLAR PANEL - VERY HEAVY, REQUIRES A STORAGE LOCATION OR SLOW HEATING THROUGH ENTIRE DAY IF SOLAR IS CONNECTED TO HEATING ELEMENT DIRECTLY. CUTLERY: MEDIUM BOWL WITH TIGHT LID (LEFTOVERS), LONG SPOON (FOR JARS), FORK (FOR MEAT). LONG "TEA" SPOON - SMALL END, METAL IS BETTER (SILICON CUTS ON THE EDGE OF CANS.) VACUUM SEALED BOTTLE - XL (HOT WATER ONLY, NO DRINK MIX) + NON VACUUM SEALED CUP / COVER (FOR DRINK MIX / FOOD) **EASY ANSWER: MC4 CONNECTORS TO HEATING ELEMENT + MC4 SOLAR PANEL + SOLAR THERMOS.**

FOOD

PAINT PAIL & LID (VERMIN AND INSECTS), PRENATAL VITAMINS (HEAVY ON IRON AND ALL VITAMIN CONTENT - HARD ON STOMACH, GOOD FOR BLOOD DONATION), PASTA (SMALL SHAPES FOR SPOON AND TO FIT TIGHTER IN BOWL.), PEANUT BUTTER (CALORIES + JARS), HONEY (SWEET), BANANAS (STOMACH AND POTASSIUM), DRY MEATS (SAUSAGE, COOKED HOTDOGS, BACON, SALAME), APPLES (TEETH, STOMACH, NATURAL SUGAR & FIBER), TORTILLAS (OTHER BREAD WHEN LOW COST), SALTINES (STOMACH AND BREAD = HARD TACK), OATMEAL (REQUIRES EXTENDED HIGH HEAT, NOT JUST BOILING) WHEY (NIDO, POWDERED PROTEIN), CANS (CHICKEN, FISH, ETC.), JELLY (LOCAL.) OTHER FRUIT AND VEGGIES - OF COURSE, BUT THEY SMASH AND OFTEN REQUIRE COOKING/ DRYING. FRUITS & VEGGIES - GO FOR IT... I LIKE MY PRENATAL VITAMIN, APPLES/BANANAS/ACORN SQUASH.

PANTRY STUFFERS

1. PASTA
2. POWDERED PEANUT BUTTER, NIDO WHEY / INFANT MILK, HOT CHOCOLATE - MIXED
3. CONCENTRATED VITAMINS - NEONATAL, GUMMIES, VITAMIN WATER, FRUIT
4. PEANUT BUTTER
5. HONEY
6. NUTS AND BERRIES (TRAILMIX)
7. HOTDOGS
8. SALAME AND PASTA
9. TORTILLAS (UNDER 15 CENTS EACH, NORMAL SIZE)
10. BAKED GOODS (POUND CAKE IS GREAT, SOFT BREAD IS NOT)
12. BEANS
13. TACOS

14. CANNED FOOD + POWDERED POTATOES - FEELS LIKE 3X THE FOOD.
15. CHICKEN SAUSAGES, HOTDOGS (NO COOK)
16. HONEY
18. TRAILMIX
19. COOKED BACON
20. OATMEAL (MAKES YOU FART/SHIT)
21. POWDERED WHEY: NIDO + PEANUT-BUTTER POWDER + HOT CHOCOLATE + CAYENNE PEPPER = AN EXPENSIVE PREMIER PROTEIN SHAKE IF CONSIDERING PROTEIN ALONE (SIGNIFICANTLY MORE CALORIES IN THIS MIX THOUGH)
- OVERALL - NOT A BAD DRINK, AND FEWER CALORIES IF YOU DRINK LESS (HENCE PEPPER.)
22. VEGETABLE PACKETS - LEGUMES & ETC. INDIVIDUALLY PACKAGED. GOOD VITAMINS - ALSO, A LOT OF FIBER (MAKES YOU FART.)
23. RICE TAKES MEDIUM HEAT OVER A LONG PERIOD TO COOK, USING BOILING WATER FROM A THERMOS DOES NOT WORK UNLESS THE COOK CONTAINER IS VERY INSULATED.
24. BAKING, BEST WAY TO STRETCH YOUR MONEY. FLOUR IS THE CHEAPEST DOLLAR PER CALORIE YOU CAN GET, BUT REQUIRES STEAM WHICH NEEDS A LARGER POWER SOURCE.

IN THE ICEBOX

- IN GENERAL - AVOID ICE IN THE CAR. MEAT GOES BAD QUICK, CHEESE TOO - COOK AND EAT IT WHEN PURCHASED, THEN GO GET MORE OR YOU WILL GET SICK (+ STINK THE CAR.)**
1. ICE FROM A VENDING MACHINE IN A VACUUM SEALED CONTAINER, TRANSFER TO A CONTAINER WITH A LOCKING LID @ THE COOLER.
 2. CALAMARI (CHEAPER THAN FISH) ALTHOUGH SALTING OR DRYING FISH AND CALAMARI IS VERY COMMON. DRY MEATS ARE BEST.
 3. EGGS (AS SKETCHY AS MEAT.)
 4. YOGURT - INDIVIDUALLY SEALED PROBIOTIC MINIS.

AVOIDED WHILE WALKING

STANDARD TIGHT KNIT NYLON MATERIAL WORKS OK, GENERALLY THE SAME AS RIPSTOP BUT STRONGER AND MORE LIKE JEANS. NYLON IS LIGHT AND OLDSHCOOL NYLON (USED) IS OFTEN STRONG, RELATIVELY WATER RESISTANT, AND THICK ENOUGH TO CARRY WOOD IN. I STILL PREFER RUBBER FOR A MAIN PACK IN ADDITION TO A RUBBER CHEST PACK, BUT MOST OF THE HIGH END MILITARY/SPECIALIST PACKS ARE MADE OUT OF SOME KIND OF STRONG NYLON, NEARLY WATERPROOF. CARGO IN EL CAJON HAS THE BEST I'VE SEEN. LOOK FOR WHERE POLICE SHOP OR START WITH DICKIES / CINTAS AND ASK.

RIPSTOP BACKPACK: RIPS EASILY, POKES THROUGH EASILY, NOT EASY TO REPAIR (FRAYS), MELTS QUICKLY WHEN IN CONTACT WITH FIRE EMBERS, NOT WATERPROOF. WHEN PURCHASING RIPSTOP MAKE SURE YOU GET A THICK VERSION *MOUNTAIN HARDWEAR (NOT WORTH THE WEIGHT SAVINGS OTHERWISE.) ONLY USEFUL BECAUSE IT IS LOW WEIGHT.

CAMPING STORES SELL THIN PLASTIC, PLASTIC MELTS/BURNS THEN CATCHES FIRE. THIS EQUIPMENT IS BAD FOR CAMPING, BUT IT IS LIGHT BECAUSE PEOPLE/AMERICANS ARE FAT AND DON'T CARRY HEAVY THINGS WELL. ALSO - IT FORCES PEOPLE TO BUY NEW STUFF SOONER (LIGHTER TYPICALLY DOESN'T LAST LONGER AND IS MORE EXPENSIVE.) THAT'S PROBABLY WHY YOUR TENT IS FULL OF HOLES (TOO CLOSE TO THE FIRE, PLUS "SHARPS" ON THE GROUND - ROCKS, NEEDLES, ETC.)

CANVAS BACKPACK: HEAVY, SMELLS VERY BAD QUICKLY (WITHIN WEEKS), NOT WATERPROOF, SNAGS. ASSAULT PACK - KEYTERM FOR GOOD CANVAS BACKPACK WITH STRONG TIE POINTS/STRAPS AND FIRE RESISTANCE. REGARDLESS, SMELLS & MOLDS.

STANDARD CAMPING BACKPACK: INTERNAL OR EXTERNAL FRAME: EXPENSIVE, MELTS FROM EMBERS (USUALLY PLASTIC), LOW STANDARD USE DUE TO LARGE SIZE, NOT WATERPROOF, SNAGS.

FLAT CHEST PACK: - LOW QUANTITY OF MATERIAL, NO GOOD FOR INTERNAL WATERPROOFING WITH JARS (PLASTIC BAGS ONLY) UNLESS YOU PREFER/NEED TO CARRY LESS.

STANDARD BACKPACKS: NO GOOD (JANSPORT, ETC.) ZIPPERS BREAK, STRAPS RIP OFF, MORE FEATURES = TOO EXPENSIVE AND STILL A SHORT LIFE. TIMBUK2 OR SIMILAR BRAND AS AN ALTERNATE IF YOU MUST. OTHERWISE, LOOK FOR RUBBERIZED MATERIALS. A HEAVIER BACKPACK IS A GOOD THING FOR KIDS (THEY DON'T HAVE MANY BOOKS THESE DAYS), LET ALONE ADULTS.

JEANS, SWEATPANTS, AND COTTON UNDERWEAR: JEANS ARE GOOD FOR OVERWEAR WHEN DOING INDUSTRY WORK, THEY ARE NOT GOOD FOR REGULAR WALKING BECAUSE THEY RESTRICT BLOODFLOW/COOLING AND DO NOT DRY QUICKLY WHEN WET/SWEATY AND ARE HEAVY IN WATER. IN GENERAL, THEY ARE NOT AN INTELLIGENT MATERIAL TO WEAR UNLESS WORN AS AN OUTER LAYER AND EVEN THEN THEY ARE A POOR MATERIAL BECAUSE THEY ARE NOT WATERPROOF AND DO NOT DRY QUICKLY. SAME FOR SWEATPANTS - BOTH ARE HEAVY COTTON THAT DOES NOT DRY AND WHICH HOLDS BACTERIA. EVEN MORE SO FOR UNDERWEAR AS WET COTTON FIBERS CAUSE RASHES. ANYONE WHO SELLS COTTON CHILDREN'S UNDERWEAR DOESN'T CARE ABOUT GIVING THOSE SAME KIDS RASHES, OR PUSHING THEM TO BE ACTIVE/SWEATY. AVOID HEAVY COTTON UNLESS YOU HAVE A HOUSE OR PLAN ON PAYING TO USE A WASHER/DRYER REGULARLY. EVEN THEN, WE WOULD BE BETTER OFF AVOIDING IT.

FIRE TO DRY CLOTHES THIS IS HOW YOU "HOBO SOCKS" AS IN - SOCKS WITH TONS OF HOLES. THE EMBERS FROM THE FIRE BURN THROUGH THE CLOTHING, INCLUDING COTTON SOCKS AS SOME OF THOSE EMBERS ARE HOT AND PUTTING CLOTHES CLOSER TO THE FIRE TO DRY THEM FASTER MEANS - HOLES/BURNING. EVEN JEANS GET HOLES (LOOK AT A JEAN WELDING JACKET.) FLAT ROCKS MIGHT WORK, OR MAINTAIN HEAT IN A LARGER CAN AND REDIRECT THE EMBERS OUT A CHIMNEY/FLUE OR AVOID FIRE. FIRE IN GENERAL DOESN'T GO WELL WITH MODERN CAMPING EQUIPMENT OR CLOTH MATERIALS, BECAUSE MODERN HUMANS ARE CHEAP AND THEY PURCHASE GARBAGE THAT IS HEAVILY MARKETING WITH LITTLE ACTUAL KNOWLEDGE ON WHAT THE CORRECT MATERIAL / PRODUCT IS. IRONIC, SINCE WE ARE SUPPOSED TO BE INFORMED CONSUMERS - EVEN THOUGH THAT IS OUR PRIMARY FUNCTION TODAY, WE ARE NOT INFORMED WHATSOEVER. 5 STARS FULL OF LIES, PLASTIC FABRIC MELTS FAST.

TRASH COMPACTOR LINER FOR WATERPROOFING A BAG. 1. MOST BAGS HAVE MULTIPLE POCKETS, 2. LINERS AND ZIPLOCS GET CAUGHT IN ZIPPERS, 3. BAGS WITH MANY POCKETS ARE EXPENSIVE, 4. THE BAG STILL GETS WET, 5. ADDING A PACK COVER DOES NOT COMPLETELY WATERPROOF THE BAG AND SLOWS GETTING INTO AND OUT OF IT. 6. THE BAG STILL HAS TO DRY EVEN IF WHAT'S IN IT STAYS DRY, WET BAGS SMELL/MOLD/GET HEAVY. 7. BAGS WITH MANY ZIPPERS ARE WAY HEAVIER THAN A DRYBAG, AND ARE SLOW TO USE (ONE COMPARTMENT THAT IS WATERPROOF IS FAST, MANY THAT ARE NOT - IS SLOW + MAINTENANCE ISSUES.)

GIVE ME BACK MY MONEY FROM ALL THE GARBAGE PACKS AND EQUIPMENT YOU ENCOURAGED THE PURCHASE OF - USELESS.

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COMPUTER HARDWARE

CONSIDER THESE CAREFULLY, THEY HAVE FAR REACHING SUPPLY CHAIN AND GEOPOLITICAL IMPLICATIONS IN ADDITION TO A SEVERE IMPACT ON HOW WE LIVE (MOVING OR SEDINARY, AND PRODUCTIVE - OR PAINFULLY ADDICTED TO WHAT IS NOT.) OUR CURRENT TREND AS AMERICANS IS THE LATTER.

OPTION 1 (DIFFICULT, WEARABLES)
\$300-\$600+

- WEARABLE COMPUTING IS "SCREENLESS" (MORE LIKE MONITOR-LESS,) LOW POWER, REPAIRABLE, UPGRADEABLE, INEXPENSIVE, AND SUPPORTS INTERNET OF THINGS APPLIANCE & TOOL INTEGRATION (DEVICES THAT TRULY ARE SCREENLESS.) THIS IS THE NEXT ERA OF COMPUTING, IT MUST ELIMINATE THE WASTE IDENTIFIED DURING SOCIETY'S SMARTPHONE USE. OTHERWISE, IT IS USELESS. LESS SOFTWARE, NOT MORE. THAT REDUCTION IN PROGRAMMING AND HARDWARE IS WHY IT ISN'T HAPPENING QUICKLY - FEWER JOBS, MORE COMPETITION, LOWER MARGINS.

WORK AROUND BIG TECH OPERATING SYSTEMS AND AVOID THEIR AUTHENTICATION + SUBSCRIPTION SERVICES.

96BOARDS AND PI COMPUTERS ARE SMALL, LOW COST, LOW POWER, A.R.M. ARCHITECTURE CREDIT CARD SIZE COMPUTERS. BUILD YOUR OWN WEARABLE CASE OR 3D PRINT ONE FROM A WEBSITE. COMPUTER ON YOUR BELT PLUS A FACE MONITOR... WITH A CREDIT CARD ARM COMPUTER YOU ARE MORE LIKELY TO USE: LINUX, ANDROID, RASPBERRY PI, OR SIMILAR ALTHOUGH IOS AND WINDOWS SUPPORT IS NEAR AT HAND. WHY NOT USE A SMART PHONE? BECAUSE IT FORCES SUBSCRIPTIONS & HAS LIMITED SOFTWARE FEATURES. BETTER TO BUILD SOMETHING THAT WON'T BE HAMSTRUNG BY CORPORATE OVERSIGHT.

HOWEVER, "GRAPHENE OS" OR LEGACY OS ON A SMARTPHONE MAY WORK AND ALLOWS FOR HIGHER POWER HARDWARE. THIS EFFORT IS FOCUSING ON **LINUX SLACKWARE 64** FOR: ROBOTICS, EMAIL, PDF, AND TEXT FILES. WITH OTHER BOOTABLE OPERATING SYSTEMS ON THE MBR LIKE WINDOWS (NOT WIN IOT) AND PERHAPS ARDUPILOT AS WELL AS ANDROID, IOS, PI, ETC. NOTE: 3D PROCESSING ON THIS COMPUTER SIZE IS UNCOMMON. THAT MATTERS FOR INDOOR & OBSTACLE NAVIGATION. NOW, ADD PERIPHERALS:

- USB KEYS: TWO, 1 FOR USB BOOT BUILT FROM RUFUS, 1 FOR FILE STORAGE WITH BITLOCKER ENCRYPTION.
- SPLIT KEYBOARD WITH TRACKBALL THIGH MOUNTS. CUSTOM BUILD ON A WAFER, PROBABLY FROM ADAFRUIT.COM **SPEECH ENTRY IS DIFFICULT TO CORRECT, AND LOUD.**
- ADJUSTABLE DPI MOUSE WITH RECHARGEABLE BATTERIES (ANY SURFACE.) OPTION: LEAP MOTION OR WATCH AS MOUSE. NO SMART GLOVES, NEED CHEAPIES/ERS FOR THROW AWAY & GREASE.
- HIGH RESOLUTION DRONE GOGGLES OR FLEXIBLE CLEAR SCREEN. GOGGLES ARE ODD TO LOOK INTO VS A STANDARD SCREEN. GET USB-C AND HDMI INPUTS FOR AN EXISTING COMPUTER. **STRETCH - BICYCLE / BASEBALL WRAPAROUNDS AS MONITOR.**
- DC CAR JUMPER BATTERY WITH SOLAR PLUGIN AND AC/DC FOR LAPTOP OR LITHIUM AA'S IN A CUSTOM BATTERY PACK.

OPTION 2 (EASY, LAPTOP)
\$200+

- LAPTOP FALLBACK: IF YOU GIVE UP ON WEARABLES AND IOT DEVICES OR ARE STILL WORKING TO DEVELOP YOUR OWN. REFURBISHED COMPUTERS ARE A GOOD ALTERNATE THAT CAN SELL FOR AS LOW AS \$50 AT A SWAPMEET OR \$200 THROUGH A REFURBISHING PROGRAM.

GETTING A SWAPMEET COMPUTER RUNNING AGAIN CAN BE TOUGH - THINK \$200 OUT THE DOOR INCLUDING \$20 SOLIDSTATE HARDDRIVE.

ASUS AND ACER ARE \$200 NEW, HP & DELL ARE PROBABLY BETTER (ESPECIALLY WITH WARRANTY *BATTERY), AND DEFINITELY WHEN CONSIDERING AMERICAN JOBS. 8.5X11 LAPTOP SIZE IS EASIEST TO CARRY SINCE IT MATCHES PAPER SIZES AND RELATED CONTAINERS OR BAGS. \$200 IS MORE THAN SUFFICIENT FOR ADVANCED USES TODAY.

OPTION 3 (RELIABLE POWER & LOCATION + DATA PROCESSING REQUIREMENTS, DESKTOP)
\$300+

CUSTOM COMPUTER. ATX, ATX MINI CASE, AND/OR A NETWORK AREA STORAGE DEVICE LIKE READYNAS. IDENTIFY BENCHMARKS AND INTEROPERABILITY FOR INDIVIDUAL PARTS ON NEWEGG.COM, AND AMAZON. ENSURE THE MOTHERBOARD HAS MANY PCI-E SLOTS (DESKTOP = SERVER = DATA PROCESSING.)

OPTION 4 (HIGH SCALABILITY & LOW HARDWARE RISK - SERVER FOR RENT)
\$20/MO.+

OPTION X (SMARTPHONE)
\$100+

COMPUTER IN A POCKET, WITH BLOATED SOFTWARE APPLICATIONS FORCING SPECIFIC USE AND PURCHASES. ENCOURAGES MONTHLY PAYMENTS (CELL PLAN), AND HIGHER OVERALL COST OF TECHNOLOGY USE BY OVER \$1K ANNUALLY PER PERSON, HUGE BUDGET ITEM. DISCOURAGES DEVELOPMENT OF IOT (COMPETING PRODUCTS), ENCOURAGES OLIGOPOLIGES, REPLACEABLE BY A MOBILE DEVICE EMULATOR. GENERALLY NOT A WEARABLE DEVICE, SO ANTI MIXED-REALITY AND AUGMENTED REALITY - MAY SUPPORT VIRTUAL REALITY (VR IS ANTI REAL-WORLD.)

THERE ARE MANY COMPANIES THAT MANIPULATE PERCEPTION TO MAKE THINGS APPEAR SPIRITUAL, WHEN THEY ARE NOT. A COUPLE WAYS TO LOOK AT THIS - 1. THE DEVIL DOES IT. 2. CAPITALISM DOES IT. 3. PEOPLE WANTING TO DO GOOD FALL BACK ON BELIEVING THEY CAN CONTROL THE WORLD (HUMANS ARE SEVERELY FLAWED.)

4. MOB RULE (GET ENOUGH CRITICAL MASS TO CAUSE CHANGE.) OR SIMPLY,
5. "GOD MAKES GODS OUT OF WHATEVER WE BELIEVE IN." WHICH MAKES SENSE, BUT ONLY FOR A SHORT WHILE.

SINGLE PAY / DONATION BASED SOFTWARE, NO ADS, LITTLE TO NO "BIG TECH":

- FREEFILESYNC: SYNCHRONIZE COMPUTER, USB DRIVE, CLOUD STORAGE. BACKUPS & PUBLISHING: MAINTAIN FILES ON COMPUTER, BACKUP TO USB KEY OR SERVER WITH MACRO.
- BITLOCKER: ENCRYPT COMPUTER & USB. BITLOCKER: PASSWORD PROTECT USB KEY AND COMPLETE COMPUTER.
- CALIBRE: (EREADER)
- NOTEPAD++: TODO LIST, DOCUMENT AUTHORIZING, EDITING, AND COMPUTER CODING (REPLACEMENT FOR WORD)
- OPEN OFFICE & LIBRE OFFICE: ADDITIONAL TEXT, SPREADSHEET, PRESENTATION, DRAWING, DATABASE, FORMULAS
- VLC: VIDEO PLAYBACK
- HTTRACK: WEBSITE DOWNLOAD
- OBS: VIDEO RECORDING, STREAMING
- SKETCHUP ONLINE: 3D MODELING + DATA. FABRICATION LEVEL 3D MODELING AND DATABASE CREATION (METADATA TIED TO 3D COMPONENTS THAT CAN BE EXPORTED) - FUNDAMENTAL PROCESS MANAGEMENT. FREE WEB MODELING OPTION.
- MESHLAB: 3D MODEL REPAIR TO 3D PRINT
- PAINT.NET: MAGIC WAND & DETAILED IMAGE EDITING TOOLS
- FIREFOX: "OPEN" INTERNET BROWSER, SUPPLEMENT WITH ANOTHER AS THE US GOVERNMENT IS IN BED WITH I.E./EDGE AND CHROME INCLUDING THE IRS. ALTHOUGH ID.ME COULD CHANGE THAT.
- THUNDERBIRD: OFFLINE EMAIL & CALENDAR CLIENT
- WINDSCRIBE: VPN
- X86: USB BOOTABLE ANDROID EMULATOR
- LOCUSMAP: OFFLINE MAPS (TRAILS)
- MYRADAR: WEATHER
- ALMOSTTI: GRAPHING CALC, NEEDS TI ROM.
- US&CANADA NAVIONICS: WATER CHARTS.

- NAVIGATION PRO: WALKING/BIKING/SMART WATCH DIRECTIONS
- NOVA LAUNCHER: REPLACEMENT GUI
- ESV BIBLE: EREADER (FREE - CONCORDIA PUBLISHING)
- YELLOW PAGES: BUSINESS LISTINGS (ONLINE ONLY, NO OFFLINE, MUST ASK FOR PRINTED COPY, LOCUS + OPENSTREETMAPS ARE PROBABLY A BETTER OPTION.)
- TIDES: TIDE TABLES
- DUET DISPLAY: SECONDARY TABLET DISPLAY
- DICTIONARY: M-W PREMIUM
- USB INSTALL OPERATING SYSTEMS: LINUX(UBUNTU/SLACKWARE64), AND/OR RUFUS WITH: APPLE, ANDROID, WINDOWS +/-
- BING MAPS: OFFLINE MAPS, PREFER LOCUS.
- BLUEBEAM: PDF VIEW, EDIT, MARKUP (PRODUCT & BUILDING DESIGN FOCUS.) PDFS ARE AS CRUCIAL AS EMAIL FOR 2D & 3D. THIS SOFTWARE OPENS THEM UP BUT YOU NEED A SINGLE PAY VERSION. BECOMING A MONTHLY SERVICE AFTER GOING CORPORATE.
- LIGHTNING BUG: MEDITATION PACK,
- PROJECT M MUSIC VISUALIZER PRO

NO PHONE:

- GOOGLE VOICE ON WEB: 50% RELIABLE FOR 2 FACTOR SECURITY (NOT GOOD, BUT NEEDED FOR A FREE STABLE PHONE NUMBER, PARK ONE AT VERIZON AFTER SIGNAL SETUP.)
- WINDOWS 11 SUBSYSTEM FOR ANDROID
- WSA TOOLS: APK INSTALLER (ANDROID APPS.) APKs ARE BETTER OFF DOWNLOADED ON A DEVICE THEN SAVED OUT OF IT ONTO USB OR A CLOUD STORAGE NETWORK.
- INSTANT MESSAGING METHOD: *USE EMAIL.*
- SKYPE & GOOGLE VOICE APPS: PHONE CALLS (OR PREPAID SIM CARDS FOR SHORT TERM USE.) SKYPE IS NOT FREE, WHILE THEY ABUSE THEIR SUBSCRIPTION PLATFORM AND HIJACK PHONE NUMBERS. NO GOOD.

PDF OR .TXT DOCUMENT PASSWORD MANAGEMENT

A .PDF SAVED LOCALLY ON A COMPUTER WITH PASSWORD PROTECTED BOOT/OPERATING SYSTEM, SYNCHRONIZED TO A USB KEY WITH BITLOCKER THROUGH FREEFILESYNC. SAVE A COPY TO DRAFT EMAIL ON AN ENCRYPTED EMAIL SERVER + TLS + PGP. RESULTS IN PASSWORDS SYNCHRONIZED TO 3 LOCATIONS WITH MINIMAL WORK AT NO COST BEYOND DONATION. PDF WORKS GREAT AS WELL, AND IS PASSWORD PROTECTED - IT NEEDS SEPARATE FIELDS OR TEMPORARY FLATTENING OF THE PDF FOR SEARCHING. USING A PASSWORD MANAGER FROM A SPECIFIC COMPANY OR BROWSER RAPIDLY FORCES YOU TO USE IT FOR A LONG TIME AS IT TAKES MONTHS TO GET PASSWORDS OUT OF THOSE SYSTEMS FOR FREE - PCLOUD DOES IT VERY FAST FOR \$, BUT THAT ONLY MATTERS IF YOU USE RANDOM PASSWORDS - OTHERWISE, YOU HAVE TO CHANGE THOSE INDIVIDUALLY AT EACH SITE.

BOOTABLE USB DRIVES OR MBR SETUP:

LOOKING FOR AN ALTERNATE THAT SUPPORTS MULTIPLE OS'S EASILY & FOR SINGLE PAYMENT. MULTIBOOT APPEARS TO WORK. PROCESS: RUFUS FOR MBR THEN MULTIBOOT
APPLE: SOME OF THESE PROGRAMS WORK NATIVELY ON APPLE AS WELL - OTHERWISE, USE BOOTCAMP TO DUAL BOOT BETWEEN WINDOWS AND WHATEVER IS ON YOUR USB KEY. LINUX: UBUNTU IS RELIABLE & IS USB BOOTABLE, OR SLACKWARE 64, ALSO: ARDUPILOT/ROVER/SUB FOR DRONES -REBOOT AT EACH MODE. ALL ON USB THEN ONTO A 96 BOARDS PC. IDEALLY INSTALLED LOCALLY ALSO. PI: THE ESSENTIALS, WORKS - AS LONG AS YOU ARE OK SUPPORTING HARDWARE FROM THE UK AND CHINA INSTEAD OF FOCUSING ON MORE QUALCOMM CHIPSETS AND LOCAL SMALL MANUFACTURERS IN THE CHIPSET INDUSTRY THAT ARE GROWING QUICKLY.

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COMPUTER SOFTWARE

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SHEET NUMBER:
COMPUTER SERVERS BY OTHERS

CREATED ON: 2023.08.15
LAST UPDATED: Tue, 2024/Jun/25 16:06

SERVERS BY OTHERS (COSTS MORE - EITHER SUBSCRIPTION OR ELECTRICITY OVER TIME)

POSTEO: EMAIL, BERLIN GERMANY, SMALL MOM AND POP SHOP. USED BECAUSE OF HEAVY COMPETITION IN EMAIL SECTOR AND EXPECTED RELIABILITY, ETC. OTHERWISE - BUSINESSES WILL BLOCK A SPECIFIC DOMAIN IN BULK (NOT COOL.) ENSURE EMAIL SERVER IS ENCRYPTED WITH A STRONG PRIMARY PASSWORD. \$1 A MONTH. SERVER BY SELF (REQUIRES ALWAYS ON COMPUTER).

MAMP PRO: RUN YOUR OWN EMAIL AND WEB SERVER.

READYNAS: SOFTWARE OR HARDWARE, THEIR HARDWARE MIGHT RUN MAMP FOR A WEB/EMAIL SERVER AS WELL. GREAT OPTION FOR EASY FILE AND MEDIA STORAGE INCLUDINNG CDS, PHOTOS, ETC. LOAD SOFTWARE ONTO A DESKTOP COMPUTER OR ON ITS OWN. RUN AS FTP, BACKUP TO PCLOUD. PROBABLY HAS SOME PHOTO PROCESSING / AI SOFTWARE BEING SETUP ON IT LATELY AS THERE IS ALREADY A STRONG EXISTING DEVELOPMENT GROUP TIED TO THEM. I RECOMMEND THESE FOR DATA ESPECIALLY.

WORDPRESS: WEBSITE AUTHORING AND FORMATTING. I PREFER PDF, BUT FOR INVENTORY TRACKING AND SALES - A MORE ROBUST SYSTEM IS REQUIRED. HOWEVER, A PDF CATALOGUE WORKS WHEN SELLING ONLY A FEW ITEMS WITH QUANTITIES ON HAND, OR WHILE SELLING GENERIC ITEMS LIKE "FISHING POLE" AS LONG AS THE BUYER DOES NOT CARE WHAT KIND OF FISHING POLE THEY GET, IF THEY DO - AND YOU CAN'T GUARANTEE DELIVERY - DON'T USE A PAPER OR PDF CATALOGUE TO ADVERTISE OR SELL.

FREEZILLA: SECURE FILE TRANSFER PROTOCOL TO READYNAS

PCLOUD: CLOUD STORAGE FOR LIFE VIA A SINGLE PAYMENT. OTHERWISE - A RANDOM CLOUD SERVER: BOX, DROPBOX, ICLOUD, OFFICE 365, GOOGLE DRIVE, ETC. USE THE FREE SPACE TO BACKUP THE READYNAS. RESULT OF THIS SOFTWARE (WINDOWS) - FEW RECURRING COSTS (MY ONLY CURRENT COST IS AN EMAIL SERVER WHICH CAN BE PAID IN ADVANCE, AT \$1 A MONTH FOR POSTEO IT IS ONE OF THE CHEAPEST W/ HUMAN SUPPORT.)

I RELY ON PCLOUD FOR STORAGE, IT ALLOWS LIMITED TRAFFIC SO SCALING UP IS EVENTUALLY IMPOSSIBLE. A READYNAS SERVER IS PREFERRED WITH PROCESSING PERFORMED BY PCI-E GRAPHICS PROCESSOR UNITS DESIGNED FOR SPECIFIC TASKS ON A SECOND COMPUTER. **NEEDS: EASY HARDDRIVE SWAP (READYNEAS) PLUS SEVERAL PCI-E GPU SLOTS FOR AI SPECIFIC CHIPS (BULKWORK AKA "USEFUL WORK".) NOT: AWS, AZURE, OR KUBERNETES. DEVELOP SMALL ON-SITE SERVER HARDWARE AT THE SIZE OF INDIVIDUAL USERS AND SELL A PACKAGE THAT CAN ALSO OFFLOAD TO A LARGER SERVER <-- COMMON IN 2010, THIS WORKS.** PCLOUD IS EASY TO USE AS AN ALTERNATE, IT IS BASED ON THE SAME CONCEPT, AND SOME OF ITS SECURITY FEATURES ARE DIFFICULT TO RESOLVE WITH ANY OTHER LOCAL OPTION. AT SOME POINT - A BLOCKCHAIN SOLUTION IS REQUIRED FOR AN "OPEN INTERNET" - THAT, OR A MASSIVE STEP BACKWARDS. CAN I USE/COLLABORATE WITH THESE OTHER BUSINESSES? YES, BUT I DON'T WANT TO - BECAUSE I AM TIRED OF THEIR INFLUENCE. HOWEVER, PCLOUD IN AND OF ITSELF MAY BE ENOUGH FOR ME TO STORE DATA, PROCESS DATA, AND ENCRYPT/ SELL/ TRACK DATA THROUGH BLOCKCHAIN - PERHAPS WITHOUT RECURRING COSTS. ALTHOUGH WITH LIMITS TO PREFERRED "A.I." CHIPSETS WHICH IS A HUGE DRAWBACK. SO, GO LOCAL.

NOTE: AN INVESTMENT IN CRYPTOCURRENCY IS ACTUALLY AN INVESTMENT IN BLOCKCHAIN HARDWARE WHICH IS QUICKLY RE-TASKED TO DO "ARTIFICIAL INTELLIGENCE" WORK (LIKE IMAGE PROCESSING FROM 2D PHOTOS INTO 3D MODELS.) HOWEVER, AS CRYPTOCURRENCY - IT IS STILL ILLEGAL, UNCONSTITUTIONAL BY LETTER & INTENT; THOSE SUPPORTING IT ARE BREAKING THE LAW TO GROW QUICKLY.

SEARCH RESULT FIXER:

STILL LOOKING FOR A SEARCH ENGINE CUSTOMIZATION TOOL THAT ELIMINATES: GOOGLE.COM, AMAZON.COM, WIKIPEDIA.COM, FACEBOOK.COM, WALMART.COM, ETC. FROM SEARCH RESULTS. END RESULT: MORE PURCHASES DIRECTLY FROM SUPPLIERS & BETTER PRODUCT KNOWLEDGE. LOOK AT YOUR SEARCH RESULTS, MOST ARE PROBABLY FROM THESE COMPANIES WHICH MAKES THE SEARCH ENGINE ITSELF GENERALLY USELESS BECAUSE THE REST OF OUR INTERNET TIME IS ON SOCIAL MEDIA. THEREFORE - WEBSITES ARE ONLY VALUABLE FOR POPULATING OTHER WEBSITES - THAT WAS THE ORIGINAL INTENT OF LINKS ON WEBSITES (A SIMPLE PATH.) COMPANIES LIKE GOOGLE ARE KILLING THEIR OWN PRIMARY BUSINESS MODEL BY DIRECTING PEOPLE INTO OTHER BUSINESS SEARCH ENGINES. WHY? THEY ARE SWITCHING TO MAPPING APPLICATIONS (ALL SOFTWARE IS, AND HAS BEEN FOR A VERY LONG TIME) BECAUSE THAT IS THE EASIEST WAY TO DO ASSET TRACKING; WHERE ARE: THE CONSUMERS, THE SUPPLIES, THE FACTORS OF PRODUCTION, AND SO ON?

REGARDLESS, IF YOU DO NOT HAVE A BLOCKCHAIN RELATED ASSET MANAGEMENT SYSTEM - YOU CANNOT PARTICIPATE IN THE NEW ECONOMY OR ENTER INTO MANY MARKETS, AND YOU WILL STRUGGLE TO AUTOMATE FULL LIFECYCLE PRODUCT MANAGEMENT.

BLOCKCHAIN (WEB3.0) *IS* THE PROJECT MANAGEMENT SYSTEM (THE FILE TYPE WRAPPER! LIKE .ZIP) IT DOES DATA STORAGE, MARKETING, PRODUCTION, INVENTORY, SALES, PAYMENTS, INVENTORY MANAGEMENT, DELIVERY, REVIEWS, CODES/REGULATIONS - EVERYTHING.

HOWEVER - IT IS STUCK WITHIN THE RELATED "STORE" - THE CRYPTOCURRENCY TECHNOLOGY SPECIFIC TO A GIVEN CRYPTOCURRENCY COIN. USE EXIF.

AT 6' HEIGHT, THIS IS A DIFFICULT SLEEPING ARRANGEMENT, HEAD IS AGAINST DASH & FEET ARE AGAINST THE EDGE OF THE PELICAN CASE. MORE SO - THE LOCATION OF THE HIP/BUTT IN RELATION TO THE TOP OF THE SEAT WHEN LAID DOWN PUSHES THE TORSO TOWARDS THE GLOVE BOX.

REMEDY - INCLINED TORSO ON A PANEL RESTED AGAINST STEERING OR GLOVE BOX AND ADD BLANKETS TO CREATE A MORE EVEN SURFACE.

CAR (MURDERED BY)

YOU'VE BEEN MURDERED, EITHER BY THE ACCIDENT RATE OF DRIVING AND BEING AROUND CARS USED AS VOLUNTARY OR INVOLUNTARY WEAPONS, OR THEIR EMBEDMENT WITHIN AMERICAN INFRASTRUCTURE AND "DRIVE-THROUGH CULTURE." THIS PARTICULAR CAR HAS: AWD, CLEARANCE, ELECTRONICS, AND A FLAT 4 WITH TURBO OPTION + GOOD CARGO SPACE AND A WIDE WHEEL BASE (IN CASE ALL THAT MATTERS.) OTHERWISE, THERE ARE A VARIETY OF MINUTE PROBLEMS THAT CAN BE WORKED AROUND / MODIFIED. THE WAY IT'S SETUP HERE SHOULD APPLY TO MOST ANY VEHICLE. WHY? BECAUSE PERFORATED PANELS TURN INTO VARIOUS PIECES OF FURNITURE OUTSIDE OF A VEHICLE AND THEY DON'T TAKE LONG TO FABRICATE.

EXTRA PARTS & MODIFICATIONS FOR CARS

OLD SPARE REMOVED AND ATTACHED TO REAR BICYCLE RACK: WATERPROOF THIS AREA AS A SINK / RINSE BASIN. ADD A STANDARD DRAIN BODY WITH STRAINER AND PLUG.

16"X32" PERFORATED PANEL, ALLTHREAD, AND NUTS: ALLOWS FOR ALTERNATE LAYOUTS IN ANY VEHICLE OR ROOM. ITEMS TIED DOWN ON TOP SHELF TO PERFORATED PANEL.

ROBO3D SAN DIEGO BASED 3D PRINTING: NARROW TOP = MORE TOP SHELF SPACE.

6'+ SLEEPING LENGTH X2: LAY DOWN SEATS AND PLACE PADDED PANEL AGAINST STEERING COLUMN OR DASH, DISCONNECT HORN FUSE OR BATTERY (FUSE IS BETTER FOR SECURITY AND USE OF CAR ELECTRONICS *FAN/WINDOWS.) AN AGM AND A SOLAR PANEL KEEP IT GOING PRETTY WELL (LARGER BATTERY.)

BEHIND SEATS: SOFT COOLER & TOOLBAG



WRAP WITH ADHESIVE BACKED RUBBER, ETC.



SLEEPS TWO @ 6FT EA, PLUS CUBBIES.



SPARE TIRE AREA = TUB FOR SALT RINSE.

CARDBOARD AND DUCT-TAPE WINDOW COVERS: CUT CARDBOARD AFTER TAPING TO OUTSIDE OF WINDOW (CHECK THAT OUTSIDE MATCHES INSIDE, OTHERWISE - REVERSE), THEN WRAP IN DUCTTAPE TO PROTECT FROM MOISTURE.

AGM CAR BATTERY: (\$120 - \$400) PREFERRED TO PROPANE ALONE AS IT DOES NOT REQUIRE: \$, TIME, OR TRANSPORT TO REFUEL WHEN USING SOLAR. PLAN FOR IT TO STOP RECHARGING. OLD AGM BATTERIES CAN BE HELD TO RECHARGE, AND VOLTAGE DROPS OFF SLOWLY. LITHIUM HAS A HARD DROP WHEN DEAD AND RECHARGES BETTER FROM ZERO.

BLANKET: SLIPPERY SURFACE (STAYS CLEANER, DOESN'T HOLD SAND/DIRT), BLANKET OVER SELF TO NAP OR URINATE.

PAD: INFLATABLE WILL POP UNLESS COVERED (EPOXY AND RV TAPE OR VINYL PATCH. DENSE FOAM IS BETTER.

BUBBLE FRONT WINDSHIELD COVER: FOR THE FRONT (BLACK AND SILVER) AND CARDBOARD FOR THE SIDE WINDOWS (CUT TO MATCH WINDOW, THEN COVER IN DUCT-TAPE OR PACKING TAPE.) COVERS MOST OF THE WINDSHIELD WITH MINIMAL EFFORT AND THE SIDE WINDOWS ALMOST COMPLETELY. PEOPLE WILL STILL SEE IN IF THEY WANT TO - PROBABLY AT THE SIDES OF THE WINDSHIELD OR OVER THE TOP AT THE MIRROR. SOME PEOPLE WRAP A SHEET AROUND THE ENTIRE CAR - CHEAP&EASY, BUT TAKES A WHILE AND PREVENTS OPENING/CLOSING DOORS.

YAKIMA RACK AND HYDRAULIC LIFT/GANTRY CRANE: TRANSITION TO 1" THREADED POLES, QUICK RELEASE TO CAR, AND .5" 16X32 PANELS WITH TIE-DOWNS AND DUPLICATE USE AS CATAMARAN DECK + CONNECTING SPARS.

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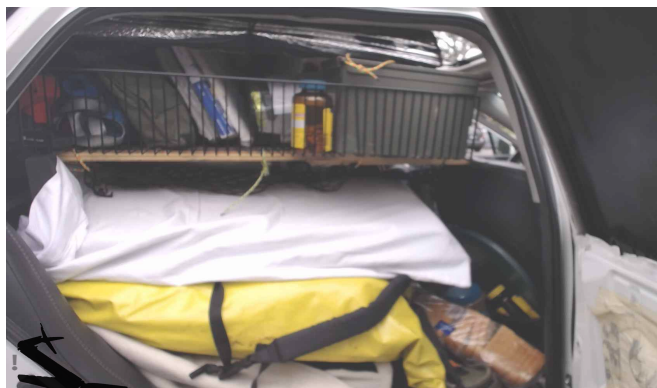
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BICYCLE BAGS & SLEEPING CUBBY + TOOLS
ABOVE: WINCH, TOW, CHAINS, ETC.



SLEEPING CUBBY - PADDED BOARD OVER
FRONT SEAT AND DRYBAG OF BEDDING.



RIGHT (TOP) - KITCHEN IN LARGER PELICAN CASE, INSTANT POT, WASHING BIN, BUCKETS OF DRY GOODS. **(MIDDLE)** - EXTRA TOILETRIES, YELLOW PELICAN CASE HOUSE AGM CAR BATTERIES, FISHING KIT, OFFICE SUPPLY SHELF, EXTRA PARTS SHELF & PLASTIC BINS INSIDE, SPINE ROLLER AT BOTTOM, OCEAN GEAR BELOW PELICAN CASE IN OLD SPARE TIRE AREA. **(BOTTOM)** ROOM FOR TOOL BAG, LIGHTS, HANDHELD VACUUM, ALUMINUM BARSTOCK FOR CUTTING/MILLING ATTACHMENT BLOCKS.

BELOW - BICYCLE CARRIER - RED WASHING DRYBAG, YELLOW DRYBAG BEHIND FOR: TRASH, RECYCLING, WOOD, ETC. SPARE TIRE BOLTED TO FRAME (NOT STANDARD), BICYCLE AS DRYRACK (ADDED POLE AT TOP TUBE), COVER OVER TO HIDE CLOTHES AND TO DRY IN RAIN.



CAR SOLAR

PARTS LIST:

ONE TO TWO 200 WATT PANELS INSTALLABLE AT ROOF. FLEXIBLE PANELS TEND TO WEAR OUT FASTER THAN SOLID PANELS WITH GLASS. ONE 100 WATT PANEL INSTALLABLE ON HOOD FOR BATTERY MAINTENANCE. FOLDABLE 100-200 WATT PANELS LAID OUT ON WINDSHIELD OR HOOD. KEEPING THE SOLAR PANELS DISCONNECTED DURING REGULAR OPERATION OF THE VEHICLE MAY BE YOUR PREFERENCE. ADD FUSES BETWEEN THE BATTERY AND SOLAR CHARGER AS WELL AS BETWEEN THE SOLAR PANEL AND SOLAR CHARGER. SOLAR PANELS FAULT / DIE (SOMETIMES QUICKLY), FLEXIBLE SOLAR PANELS SEEM TO FAULT MORE FREQUENTLY THAN SOLID PANELS. KNOW THIS WHEN YOU DECIDE TO ATTACH THEM TO YOUR VEHICLE WITH EITHER FLEXIBLE SEALANT, STRUCTURAL SEALANT, OR MECHANICAL FASTENERS AND CONSIDER HOW THE WIND COMES ACROSS YOUR VEHICLE AT SPEED INCLUDING HIGH/LOW PRESSURE AREAS.

SOLID PANELS INSTALLED ON A RACK LEAVE A SPACE BETWEEN THE PANEL AND THE VEHICLE WHICH HELPS TO KEEP THE VEHICLE COOL. WORTH IT IF YOU PLAN ON BEING INSIDE DURING THE MID-DAY.

PUSH FOR 200W PER PANEL WITHOUT A FRAME (ABOUT \$1.20 A WATT.) CONSIDER THE WEIGHT OF THE ASSEMBLY ON THE ROOF PLUS THE RELATED WINDOW LOAD / DRAG FOR BULKIER PANELS. A DEDICATED PANEL AND BATTERY (HOUSE BATTERIES) ARE USEFUL FOR CHARGING APPLIANCES. A SMALL HOOD BATTERY KEEPS YOU GOING WHEN PARKED BUT NOT IF YOU KILL THE BATTERY AT NIGHT AND EXPECT TO GET MOVING EARLY BEFORE SUN UP (WHICH IS COMMON.)

SEPARATE "HOUSE" BATTERIES ARE NECESSARY. A 50 WATT PANEL WILL KEEP A COUPLE OF CAR FANS WITHOUT AC/HEAT RUNNING FOR 2-3 HOURS WITH A LARGER AGM BATTERY. YOUR RUN TIME WILL VARY. HAVING A SEPARATE LITHIUM FAN TO REMOVE MOISTURE IS A GOOD IDEA. CONSIDER A RYOBI OR OTHER POWER TOOL FAN.

IDEAL POWER:

A METHOD OF BOILING WATER OFFGRID WITH AN OPTION FOR ONGRID/"SHOREPOWER."
ONLY OPTION FOR A CAR OR WHILE WALKING: A LARGE SOLAR PANEL. PLUS DC CHARGING (LAPTOP, LAMP/FLASHLIGHT, LITHIUM AA'S WITH USB CHARGER), AND A LARGER LITHIUM BATTERY FOR EXTRA POWER (A CAR JUMPER BATTERY IS THE MOST COST EFFECTIVE) LOOK FOR ONE WITH USB-A&C OUT. PERHAPS EVEN WITH AN INVERTER AND AC OUT.

DETAILED PRICING:

- \$300 SOLAR PANELS
 - \$100 MOUNTING HARDWARE
 - \$30 SOLAR CHARGER.
 - \$30 MC4 CABLING.
 - \$120 AGM CAR BATTERY X3
 - \$100 CAR BATTERY CASE
 - \$20 CASE MOUNTING BOARD
 - \$50 CASE TERMINAL
 - \$50 FOR FOUR FUSES & HOLDER
 - \$150 FOR POSITIVE TERMINAL CABLE.
 - \$50 PER BATTERY FOR CONNECTIONS, OR POSTS AND COPPER TABS/ HAMMERED COPPER.
 - \$300 FOR A GOOD DC/AC ALTERNATOR (DEPENDENT ON WATTS)
- \$1500 +/- IS A 2023 ESTIMATE WITHOUT INSTALLATION. ALL THIS STUFF CHANGES QUICKLY OVER TIME. ALSO - THE EXACT BRAND IS UP FOR DEBATE. MAYBE YOU FIND A GREAT DIRT CHEAP VERSION ALONG WITH INEXPENSIVE BATTERIES - PRICES VARY.

CHARGING BOX A - LOW VOLTAGE AMMO BOX WITH STANDARD USB CABLES. LOOK FOR A 200 WATT PLUGIN WITH USB-A AND C OUT IN ORDER TO FAST CHARGE, ALTHOUGH THIS REQUIRES AN AC INVERTER. A USB SPLITTER IS CHEAPER BUT CHARGES WELL BELOW 240W.
ANOTHER OPTION - MORE EXPENSIVE CHARGE CONTROLLER WITH 240W USB-C OUT.

CHARGING BOX B - MEDIUM VOLTAGE PELICAN CASE WITH 2 AGM BATTERIES. I DO NOT USE LEAD ACID BATTERIES INSIDE IN CASE OF OFF-GASSING AND I DO NOT CONNECT THE NEUTRALS TO THE CAR CHASSIS BECAUSE CAR ELECTRONICS ARE ALWAYS A PROBLEM OVER TIME, SO ISOLATE THE TWO.

WIRING:

TYPICAL SETUP: CAR BATTERY SEPARATE FROM HOUSE BATTERY - COMMON FOR RVS/BOATS TO ENSURE THERE IS BATTERY POWER TO START THE ENGINE. HOOD WIRED NEAR DRIVER SIDE HINGE TO SOLAR CHARGER AND STARTER BATT ROOF WIRED AT EITHER SIDE NEAR REAR OF VEHICLE OR BELOW TRUNK AREA. OPTION TO USE CENTER CONSOLE FOR INVERTER AT CENTER GLOVE BOX. LIPO BATTERIES OR AGM BATTERIES ARE ALWAYS PREFERRED FOR AMPS, BUT ARE MORE EXPENSIVE. AGM IS PRICED AT \$1 AN AMP HOUR, WITH 200 \$/AMPS AVAILABLE IN A STANDARD SIZE AT MANY STORES. FUSE AT THE STARTER AND HOUSE BATTERIES AS WELL AS AT SOLARPANELS. I DO NOT WANT TO WIRE SOLAR PANELS OR BATTERIES DIRECTLY TO THE CHASSIS AND PREFER A DIRECT CONNECTION BETWEEN THE PANEL, THE CHARGER, AND THE BATTERY. HOWEVER, I HAVE DONE DIRECT NEGATIVE TERMINAL TO THE CHASSIS FOR STEREOS WITHOUT ANY ISSUES AND STILL PREFER TO DO A SHARED NEUTRAL ON A STRUCTURAL STEEL SHIPPING CONTAINER FOR ALL ELECTRICITY DISTRIBUTION.

DC SAFETY?

- YES, I HAVE SEEN THE NEUTRAL SPARK ON A CAR STEREO AMPLIFIER CONNECTION TO THE CHASSIS.
- YES, I HAVE TOUCHED BOTH TERMINALS ON A CAR BATTERY WITHOUT A SHOCK.
- YES, MY CAR HAS ELECTRICAL PROBLEMS THAT ARE FROM THE FACTORY WHICH MECHANICS AND SOFTWARE PEOPLE HAVE NOT ISOLATED OR FIXED WHICH IS WHY I DON'T HAVE A SHARED NEUTRAL FROM THE HOUSE BATTERY (TIRED OF THEIR BS EXCUSES.)
- YES, I BELIEVE 24,000 WATTS AT 12 VOLTS AND 2,000 AMPS WON'T KILL ME WHEN ROUTED THROUGH A SHIPPING CONTAINER AS PROPOSED IN THIS DOCUMENT.
- NO, I DON'T KNOW HOW HIGH DC AMP/VOLT COMBINATIONS NEED TO BE TO CAUSE HARM. SPECIFICALLY BECAUSE THAT RESOURCE DOES NOT EXIST READILY AND THERE ARE A LARGE NUMBER OF FALSE STATEMENTS IN VARIOUS RESOURCES.
- YES, THE COMMENT "DC POWER CAN'T KILL ME" DOES NOTHING TO ALLEVIATE MY CONCERNS WITHOUT SELF TESTING AND FURTHER READING - PROBABLY IN RELATION TO SOLAR DECATHLON HOUSES OR OTHER MODULAR HOUSING STARTUPS.
- I WILL BE DOING THIS DC WIRING (CONTAINER, CAR, BOILER, BOAT, ETC.) REGARDLESS BECAUSE OF THE NUMBER OF ELECTRICITY RELATED LIES IN PUBLIC, ON THE INTERNET, AND VOICED OPENLY - IF YOU'RE AN ELECTRICIAN OR EXPERT WHO DOESN'T COMMUNICATE THE TRUTH ABOUT THIS THEN YOU ARE USELESS, STAY TRUE TO YOURSELF AND YOUR CALLING OR QUIT.

- A LITHIUM POLYMER "SOLAR GENERATOR" COSTS SIGNIFICANTLY MORE, IS LIGHTER BY 1/2 OR MORE IN RELATION TO ENERGY DENSITY, IS SAFER (NO CHEMICAL FIRE), HAS CONSISTENT VOLTAGE WHILE RUNNING, AND RECHARGES FROM NEARLY DEAD. ALTHOUGH PROBABLY TOO SMALL TO BOIL A FULL GALLON OF WATER IN MANY INSTANCES (THEY PUT SMALL BATTERIES IN THEM, GO FIGURE.) HOWEVER, LIPOS ARE DEFINITELY SOLD INDEPENDENTLY AT CAR BATTERY SIZES AND ADDING YOUR OWN INVERTER IS NOT DIFFICULT - THAT WILL DEFINITELY BOIL A GALLON, PERHAPS EVEN TWO (HEAVY.) OTHERWISE - EMBED AN AGM BATTERY INTO THE FRAME OF SOMETHING ELSE YOU ALREADY CARRY. USE HEAVIER GAUGE AND INSULATED WIRING WITH FUSES AND TIN THE ENDS OF ANY TWISTED WIRES. SOLID CORE IS PREFERRED. SEE PART 3 CAPACITOR DRAWING.

BATTERY DISCONNECT - ALLOWS BATTERY TO CHARGE FROM SOLAR WITHOUT A DRAIN. CARS HAVE A LARGE AMOUNT OF ALWAYS ON ACCESSORIES (ALARMS, ETC.) CAR ALARMS ARE AS EASY TO DISABLE WITH ANY PAIR OF WIRE CUTTERS AT THE BATTERY AS WELL SO - MEH. **CAR MANUFACTURERS MUST SUPPORT THE ALARM TURNING BACK ON WHEN POWER IS RE-CONNECTED, AND AN IN-LINE CAPACITOR.**



REMOVE DOOR PANELS FOR ADDITIONAL CUBBY ACCESS. MAINTAIN WINDOWS IN A CLOSED POSITION.

TWO SOLAR PANELS WIRED SEPARATELY:

- ONE FOR CAR STARTER & ACCESSORIES @ HOOD (SMALLER) - WIRED DIRECTLY TO SOLAR CHARGER AT BATTERY.
- ONE FOR HOUSE BATTERIES AND INVERTER (LARGER) BOTH WIRED TO THEIR OWN BATTERY AND CHARGER TO SEPARATE SOLAR FROM STANDARD CAR OEM THINGS.

FUEL FOR COOKING:

- I PREFER AN EXTERNALLY MOUNTED PROPANE TANK AND LOW COST BURNER (OPPOSITE THE CAR EXHAUST) AS WELL AS HOUSE BATTERIES IN THE VEHICLE. THIS HAS BEEN A PROBLEM, THERE ARE MANY GARBAGE INVERTERS - USED AND NEW.
- MAKE SURE TO OVERSIZE THE INVERTER, ALTHOUGH SOMETIMES IT'S THE BATTERY THAT IS TOO LOW CAPACITY OR TOO LOW AMPERAGE/VOLTAGE (ESPECIALLY AS IT AGES.)
- HAVE A BACKUP GAS STOVE AND DON'T BLOW YOURSELF UP WITH STOVE GAS + ELECTRICAL SPARKS, OR SUFFOCATE FROM GAS LEAKS WHILE IN THE CAR (COMMON ON BOATS.) 8QT INSTANT POT HAS PEAK WATTAGE AROUND 1200 WATTS. THIS DOESN'T ALWAYS ALIGN WITH WHAT IS LISTED IN THE PRODUCT MANUAL SO AN OVERSIZED INVERTER IS TYPICALLY NEEDED. ALSO, INVERTERS (EVEN KNOWN BRANDS) ARE PRONE TO PROBLEMS & A STRONG BATTERY WITH RELIABLE CHARGING IS REQUIRED - HENCE THE BACKUP GAS. 8QT IS MY GOTO BECAUSE THAT'S A GOOD AMOUNT OF BREAD/FOOD (2 INNER CERAMIC POTS.)

I PURCHASED THESE SOLAR PANELS THROUGH OFFERUP AND NEWEGG.COM OFFERUP IS HEAVILY DEPENDENT ON A PHONE FOR LISTING ITEMS, BUT YOU CAN PURCHASE THEM WITHOUT ONE (WHICH IS LAME.) PERSONALLY - I WOULD SKIP: WALMART, AMAZON, AND FACEBOOK MARKETPLACE.

OTHERWISE - BUY DIRECT FROM SOLAR PANEL MANUFACTURERS OR TALK TO MURPHYS IN EL CAJON. BEST BET "SPECIAL DELIVERY" - GO TO A GOOD STORE AND ASK TO SHIP THERE FROM A MANUFACTURER.

DUAL USE RACK: TWO 3" PIPES AT 1" DIAMETER, WELD IN A 1/2" NUT AT THE ENDS. SCREW TOGETHER WITH ALLTHREAD. MOUNT TO TOP OF CAR WITH STADNARD ROOFRACK EQUIPMENT, OR AN ALUMINUM BLOCK DRILLED AND BOLTED TO THE ROOF.

SET PIPES INTO BLOCK WITH SET SCREWS OR ADDITIONAL BOLTS. END RESULT: REMOVABLE ROOF RACK WITH DUAL USE AS SHORTER POLES/WALKING STICKS. OTHERWISE - THIS MONSTROSITY.

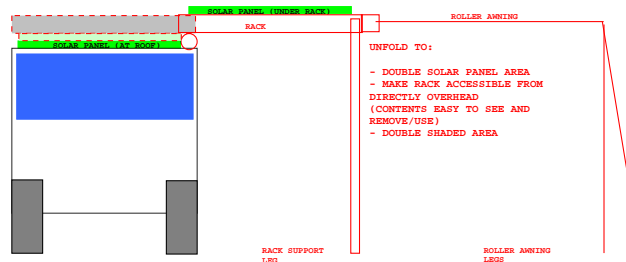
CAR: EXTENDED STAY & ROOF RACK

STORAGE, BED PLATFORM, ANTI-THEFT: 16"X32" PERFORATED PANELS PLUS .5" ALLTHREAD AND .5" NUTS CAN BE USED TO BUILD A PLATFORM FOR STORAGE AND BUNKING. GLUING THE NUTS MAY ALSO HELP TO PREVENT THEFT IF COMBINED WITH SOMETHING THAT PREVENTS THE DOORS FROM BEING OPENED FROM THE INSIDE (DISABLING CERTAIN DOORS.) IMPOSSIBLE TO BE COMPLETELY SECURE. [CLICK THIS LINK FOR PERFORATED PANEL CNC FABRICATION FILES.](#)

FOOD - DRY PANTRY CONTAINER IN BACK WITH INSTANTPOT + INNER BAKING CERAMIC DISH (DOG BOWL - 1 SMALL, 1 LARGE), BUCKETS OF DRY FOOD, SOFT COOLER BEHIND SEAT FOR DAILY USE. A SOLID COOLER IS TOO HARD TO MOVE AROUND AND TO KEEP COLD. 2L FROZEN BOTTLES, ICE IN A LOCKING LID CONTAINER, AND TRANSPORTED BY VACUUM WALLED BOTTLE (FROM SODA OR ICE MACHINE.) OTHERWISE, ICE IS TOO MUCH ENERGY / COST FOR COOLING. NETS FOR RANDOM STORAGE, A COMMON SAILBOAT / ISLAND TECHNIQUE. TYPICALLY FOR TEMPORARY STORAGE.

FIELD DETACHABLE ROOF RACK = VALUABLE. WEIGHT LIMITS ARE IMPORTANT, ALTHOUGH THEIR DOCUMENTED VALUES ARE HIGHLY QUESTIONABLE (AT LEAST UNTIL AN INSURER WANTS TO BACK OUT.) REGARDLESS, GOOD LUCK REMOVING A SUPER HEAVY RACK IN THE FIELD. DONE IT, POSSIBLE, WASTE OF TIME AND ONLY POSSIBLE UP TO A CERTAIN AGE / SIZE OR WITH HELP. OTHERWISE YOUR BACK IS ASKING TO BE DESTROYED, ESPECIALLY IF TWISTING. ALL ROOF RACKS ARE DESIGNED POORLY. THE STANDARD 1" POLE IS FINE, BUT AT THIS PRICE POINT POLES MUST BE THREADED TOGETHER AND BE COLLAPSIBLE TO BE USEFUL. LONG POLES ARE DIFFICULT TO TRANSPORT, MOVE, OR DUAL USE.

1" ROOF RACK POLES ARE REQUIRED BECAUSE THEY ARE A STANDARD FOR ATTACHMENTS AND THE AERODYNAMICS OF OTHER SHAPES IS QUESTIONABLE AT DIFFERENT SPEEDS. ESPECIALLY WITH CONSIDERATION FOR THE LOAD. OTHERWISE - GET A STANDARD SHELL. 1" POLES ARE MORE THAN SUFFICIENT FOR LARGER LOADS, MODULAR USE, STANDARD BRACKETS, AND GOOD AERODYNAMICS. TAKE THE RACK OFF QUICKLY AND MAINTAIN AN EASY STORAGE LOCATION IN A STANDARD GARAGE ALONG WITH A 1" POLE STANDARD.



GOT A FULL ROOF RACK? AWESOME SOLUTION FOR A COMMERCIAL VEHICLE, NOT A BAD WAY TO GO AT ALL - GETTING UP THERE TO LOAD IT ISN'T EASY, AND EQUIPMENT LENGTH + WEIGHT ARE IMPORTANT (A WAGON ALLOWS FOR MORE CLEAR HEIGHT W/ GARAGE USE.) 1" POLES AND A LOWER VEHICLE ARE PREFERRED. A BOAT KEPT ON A ROOF RACK WITH A RELATIVELY LOW CAR STILL OPENS MORE DOORS THAN A TRAILER OR A TALL VEHICLE, OR A HEAVY RACK AND FANCY ALUMINUM EXTRUSIONS. YOU DON'T NEED THEM UNLESS ATTACHMENTS CHANGE FASTER THAN DAILY. BALANCING THOSE TO RACK WEIGHT IS AN ACTUAL CHALLENGE. MY PREFERENCE: METAL COMPOSITE OR ANOTHER 1" POLE FILLER THAT IS RIGID. WOOD DOESN'T WORK GREAT, TRIED IT - ROTS & FLEXES. RACKS MUST ALSO BE MODULAR, WITH EXTENDABLE WIDTH / LENGTH AS NEEDED FOR 1" DIAMETER POLES WHILE LIGHT AND BACKPACK-ABLE BY ONE (YES, FROM CAR TO BACKPACK.)

STEEL RACKS OR ALUMINUM FLAT MODULAR RACKS ARE NO GOOD FOR SMALLER VEHICLES BECAUSE THEY ARE NOT EASY TO REMOVE AND DO NOT BREAK DOWN TO A BACKPACK-ABLE FRAME SIZE. T-SLOT CHANNEL WORKS WELL, BUT EVEN THAT IS HEAVIER THAN MOST OF US NEED. SPEED OF REMOVAL AND EASE OF STORAGE IN A STANDARD GARAGE ARE KEY. MOST RACKS DO NOT ALLOW FOR THIS AND REQUIRE A CEILING MOUNTED HOIST OR ROLLING HOIST (RARELY AVAILABLE / SPACE STEALERS.) I HAVE ONE, IT WORKS, I DON'T RECOMMEND IT - SPEED OF LOADING AND UNLOADING ARE ALSO VERY IMPORTANT OR IT WILL NEVER GET USED AND YOU WILL BE UP ALL NIGHT PREPARING FOR THE WEEKEND.

NECESSARY ROOF RACK EQUIPMENT

- SHOWER, LOW PSI 6" DIAMETER ABS TUBE (5 PSI MAX FOR SOME, CHECK IT.)
 - TRAIL AXE / SHOVEL.
 - SHADE AWNING.
- METHOD OF FLOTATION / BOAT
- LONG MATERIAL STORAGE - PVC PIPE WITH LOCKING CAPS.
 - FRESH WATER SHOWER PIPE / WASH DOWN (WEIGHT ISSUE) - A 5 GALLON BUCKET OR 5 GALLON JUG WITH A HAND PUMP SPRAYER IS GOOD UNLESS ROOF BRACKETS ARE VERY STRONG. HOWEVER, THE ROOF MOUNTED SHOWER WILL WARM IN THE SUN.
 - SUNLIGHT TO SOLAR PANELS BELOW.
 - REPURPOSING OF RACK INTO ANOTHER VEHICLE PLATFORM / DECK.
- THE RACK I BUILT FROM YAKIMA EQUIPMENT IS GARBAGE: HEAVY, NO 1" POLES, TOO BIG FOR PACKING, NOT REPURPOSE-ABLE. HOWEVER, IT DOES HOLD 2 KAYAKS, A SHOWER, AXE, AND A SHADE WHICH IS UNCOMMON. AVOID STEEL UNLESS FOR 100% PERMANENT COMMERCIAL USE, STICK TO ALUMINUM, STEEL IS TOO HEAVY FOR MOST ROOF ATTACHMENTS.

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SHEET NUMBER:
CAR: EXTENDED STAY & ROOF RACK

CREATED ON: 2023.08.15
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CLEANING CLOTHES

WASH

- WITH LIQUID DISH SOAP IN A DRYBAG.
- WITH REGULAR SOAP WHILE WEARING THEM, OR YOUR SKIN WILL DRY OUT BADLY.

DRY

- TWISTED INTO A CAMPING TOWEL.
- VIBRATORY TUMBLER WITH HOLES IN THE TOP CAN AS A SWIMSUIT DRYER.
- HUNG UNDER A BLACK BAG IN THE RAIN.
- SHORTS/UNDERWEAR ON OVER A THIN TOWEL THEN UNWRAP THE TOWEL FROM ABOVE AND UP (PROPER POOL DECK CHANGE.)

MISCELLANEOUS TIPS

FLAT BREAD (TORTILLAS) HINT: JEWISH LAWS ARE SURVIVAL LAWS, THEY ARE NOT NECESSARILY SPIRITUAL LAWS (SOME ARE - LIKE "THOU SHALT HAVE NO OTHER GODS BEFORE ME.") HOWEVER, FULFILLING THEM WITHOUT CHRIST IS IMPOSSIBLE AS HE IS AN EMBODIMENT OF THEM, AS WELL AS WHEN WE FAIL TO. GO CHRIST, AND STAND ON THE LAW. THEN LOOK AT OLD TESTAMENT LAW AND RULES AS "HOW I SURVIVE AND HELP OTHERS." THAT IS WHY THEY WERE USEFUL IN THE DESERT AND WHY THEIR ABSENCE (OR AN ABSENCE OF CHRIST) IN DESERT CULTURE RESULTS IN RELATIVELY RAPID DEATH AND HEDONISM OR DICTATORSHIP AND FASCISM. EVEN BETTER - TRUE LAW EXISTS TO PUNISH, NOT TO GUIDE. NO WRITTEN LAW CAN GUIDE, IT ALWAYS LAGS BEHIND LIFE & CHRIST'S LOVE, GOD'S LOVE.

SAVING ENERGY AND INCREASING POWER: "USE IT WHERE YOU MAKE IT" OR "AVOID CHARGING BATTERIES WITH BATTERIES" OR "SAVE YOUR PENNIES" OR "TURN IT OFF WHEN YOU LEAVE THE ROOM" - THIS SAVES POWER.

"USE IT WHERE YOU MAKE IT" ALSO HELPS US FOCUS ON A LOCAL ECONOMY AS WELL AS BETTER PRODUCT AND BUILDING DESIGN.

BICYCLE TIRE PATCHES: CUT RUBBER INNERTUBE CIRCLES PLUS RUBBER CEMENT OR A GOOD EPOXY FOR RUBBER (I HAVEN'T FOUND ONE, SUPERGLUE WORKS PRETTY GOOD.) JB WELD 2 PART MARINE EPOXY DOES NOT WORK WITH RUBBER. 99 CENT STORE 2 PART EPOXY WORKS SURPRISINGLY WELL FOR MOST THINGS AND AT THE PRICE 4-5 SMALL TUBES IS BETTER THAN A \$7 HARDWARE STORE TUBE (TODAY - STICK WITH THE DOLLAR STORE SUPERGLUE FOR RUBBER & EPOXY FOR OTHER.)

MILK CRATES INSTEAD OF CARDBOARD BOXES OR LARGER PLASTIC TOTES (HEAVIER CARRY, LONGER LASTING - DON'T STEAL THEM, ASK OR DUMPSTER GRAB.)

SCAN ID: PDF PASSWORD PROTECT, SYNCHRONIZE AND BITLOCKER PROTECT (SAME FOR LOGINS, RANDOM PASSWORDS.)

GLUE ON THE INSIDE LIDS OF PEANUT BUTTER JARS TIGHTENS THE SEAL, AND STRENGTHENS THE LID (THEY CRACK.) OTHERWISE SILICONE / LATEX PUT ON THICK - IT WON'T ALWAYS STAY ADHERED, BUT DOES CREATE A CUSTOM SIZED RUBBER MAT / SEAL / SOLID O-RING - MUCH HARDER TO OPEN AFTERWARDS THOUGH.

PLASTIC MELTS FROM FIRE EMBERS WHICH MAY BE YOUR ONLY FUEL SOURCE, SMART TO AVOID PLASTIC JACKETS, PACKS, CLOTHES, RIPSTOP MATERIAL, ETC. NOT WORTH THE WEIGHT SAVINGS. HOWEVER, PLASTIC IS ALSO INCREDIBLY USEFUL FOR INDIVIDUAL PIECES OF EQUIPMENT AND FOR WATERPROOFING (I USE PLASTIC JARS BECAUSE THEY ARE CHEAP, LIGHT, BOUNCY/FLEXIBLE, SEE THROUGH, AND COME IN MULTIPLE SIZES.)

MORE USEFUL STUFF

GASBUDDY.COM (LOW COST GAS CARD WITH BENEFITS & REBATES) - BUILT ON PLAID, A COMPETITOR TO VISA. SEEMS OK, BUT ALSO TIED IN WITH CRYPTOCURRENCY WHICH IS NOT U.S. CONSTITUTIONAL. FOR WHEN COSTCO GAS OR ETHANOL (CHERVON) ISN'T AVAILABLE.

CAR FUEL - GAS/ETHANOL AND SECOND TANK (PROPANE SIZE) LOCATED OPPOSITE FROM MUFFLER FOR PROPANE. ETHANOL (E85 CHEVRON OR OTHERWISE "RACING GAS") DOES NOT MEET EXISTING FUEL TRIM / MIXING ON VEHICLES (NEEDS AN ADJUSTMENT AT THE INTAKE, OR THE FUEL TRIM / COMPUTER NEEDS TO UPDATE ITSELF OR BE UPDATED IN ORDER TO RUN EFFICIENTLY.) ENGINES WILL RUN DIFFERENTLY UNLESS THE COMPUTER IS TUNED. MIXING ETHANOL WITH REGULAR GAS SEEMS TO KEEP COMPRESSIONS HIGHER WHICH TRICKS THE COMPUTER OR PUTS IT INTO A MORE STANDARD FUEL TRIM THAT IT HAS A BAND/CHART FOR - MIGHT WORK FOR YOU (MIGHT NOT.) BAD FUEL TRIM AND HOT BURNING ETHANOL = WHITE SMOKE IN EXHAUST, PROBABLY FROM BURNT OIL OR UNBURNED FUEL.

CRAIGSLIST - FREE SECTION DAILY EMAIL NOTIFICATION.

K-TOR PEDAL POWER BOX, POWER FROM PEDALING. PRETTY NEAT LITTLE DEVICE, I DON'T EXPECT MUCH POWER FROM IT - BUT STILL FAR MORE THAN WHAT CAN BE HAD FROM A HAND CRANK OR A SHAKE-ABLE LIGHT. A WONDER WHY THESE AREN'T AS POPULAR AS THOSE. PROBABLY BECAUSE THE ALTERNATOR/DYNAMO IS MUCH LARGER AND MORE EXPENSIVE + HEAVIER/BULKIER (PEOPLE ARE LAZY).

**GOALS, DESIGN/FABRICATION/PROCUREMENT
STANDARDS, BUSINESS UNITS, AND USE CASES**

GOALS:

- GOAL 1 - SUPPORT TRANSITIONING FROM LOW COST CAMPING TO A HOME AND A BUSINESS "FROM A BAG TO A HOME."
- GOAL 2 - REDUCE GOVERNMENT TAXES RELATED TO SUBSIDIES AND ASSOCIATED INFLATION. ESPECIALLY AS THEY ARE RELATED TO THE UNITED STATES. THE LARGEST BUDGET ITEMS TO BE MANAGED ARE OBVIOUSLY THE US: WELFARE SYSTEM / SOCIAL SECURITY, AND HIGH DEFENSE / MILITARY RELATED DISCRETIONARY SPENDING AS THESE MAKE UP HALF OF THE US FEDERAL BUDGET. THEY ARE PRIMARILY RESPONSIBLE FOR ECONOMIC DEPRESSIONS AND LONG TERM DEVALUING OF THE US DOLLAR OR A REQUIREMENT FOR INTERNATIONAL MILITARY ACTION TO JUSTIFY COST. ALONG WITH INTENDED PERCEPTION OF THE OPPOSITE, AND AT THAT LEVEL - THERE ARE ALWAYS ACCOUNTING SHELL GAMES.
- GOAL 3 - DEVELOP A BUSINESS AND RESOURCE NETWORK THAT IS SYMBIOTIC WITH PRODUCTS THAT INTEGRATE TOGETHER BASED ON AN ASSEMBLY STANDARD AND USE CASES THAT WORK IN TANDEM.
- GOAL 4 - REDUCE THE COST OF A HOME, ITS FURNISHINGS, AND LARGER TOYS FOR HUMANS IN THE WEIGHT RANGE OF 50-250 POUNDS (GO-KARTS, SAIL/POWER BOATS, ETC.)
- GOAL 5 - SUSTAINABLE GROWTH THROUGH AN INTEGRATED TECHNICAL PROCESS AND SHARED PERSONAL BELIEFS/VALUES.

**GENERIC PROJECT STANDARDS
(REPEAT OF FUNDAMENTALS)**

- STANDARD 1 - A 16"X32" PANEL WITH 1/2" PERFORATIONS LAID OUT ON A 2"X2" GRID. HEAVIER GAUGE PANELS WITH A VARIETY OF MATERIAL OPTIONS, METAL COMPOSITE METAL AND INLAID CIRCUITRY AS AN OPTION FOR DC POWER/CONTROLS. 2 LOW VOLTAGE CIRCUITS, AND 2 HIGHER VOLTAGE CIRCUITS WITH PLUGS IN LIEU OF WIRES.
- STANDARD 2 - 20' AND 40' LENGTH INTERNATIONAL STANDARD ORGANIZATION SHIPPING CONTAINERS (TYPICALLY 20' TO ALLOW FOR TRANSPORT BY TILT BED TOW TRUCK AND LIFTING BY COMMON FORKLIFTS.)
- STANDARD 3 - LOW UTILITY COSTS & ENERGY DIVERSITY THROUGH GRID AC POWER, SOLAR DC, AND NATURAL GAS MICROTURBINE AC/DC, DC POWER DISTRIBUTION BY STRUCTURE. WATER: CITY, WELL, ROOF CATCHMENT, GRAY WATER RECYCLING.
- STANDARD 4 - NATIONAL PLUMBING .5" NPT&PPT THREADS (OUTSIDE DIAMETER LARGER THAN .5IN) WITH EXISTING ADAPTERS FOR A MULTITUDE OF USES. H2O BOTTLE THREADS.
- STANDARD 5 - USE WHAT EXISTS AND IS STANDARDIZED ALREADY: OUTBOARD ENGINE PACKAGES, SAILS, WATCH LINK SIZES, 5 GALLON BUCKETS, REVERSE OSMOSIS HOUSINGS, FORMED INSULATION, WATER PUMPS, STANDARD DOOR SIZES, ANY SOLAR PANEL SIZE, AA/AAA BATTERIES, 96BOARDS COMPUTERS, WHEELS (BICYCLE, SKATEBOARD, INFLATABLE), 16OZ CANS, COMMERCIAL APPLIANCES, MODULAR ELEVATORS, ETC. TOLERANCES + SPECIFICATIONS THAT MEET THE INTENT OF EXISTING SAFETY AND USE CODES - EVEN MORE SO THAN WHAT IS ALREADY AVAILABLE

- STANDARD 6 - FABRICATE PRIMARILY OUT OF METAL & COMPOSITE WITH HIGHER TEMPERATURE MACHINABLE PLASTIC AND UNMATCHED A GRADE PLYWOOD MOCKUPS.
- STANDARD 7 - 2" THICK MAXIMUM MATERIAL THICKNESS FOR CNC ROUTING BY 2 AXIS PLUS CHEATING WITH THIRD AXIS ROUTING BY ROUTER BIT TYPE (LOWER CNC COSTS.)
- STANDARD 8 - SHIP FOCUSED RESEARCH.
- STANDARD 9 - BOAT: FABRICATABLE IN A 20' X 8' X 8'6" AREA (SHIPPING CONTAINER SIZE.) WITH OR WITHOUT CUSTOM HULLS.
- STANDARD 10 - BUILDING: 3 PARKING SPACES FOR LIVE/WORK BUILDING AND PUBLIC MEMBERSHIP ACCESS OF UTILITIES/ APPLIANCES, DIRECT SUN, STANDARD UTILITY CONNECTIONS (OPTION FOR OFFGRID), SELL ELECTRICITY TO GRID (WITHOUT EXCEPTION) - OTHERWISE PRODUCTION WILL BE TOO HIGH AND LOAD WILL BE TOO LOW.
- STANDARD 11 - BUILDING: SECURE, STEEL SHELL, STEEL SHUTTERS OVER GLASS.
- STANDARD 12 - BUILDING: FIREPROOF WALLS. TYPE 1, SPRINKLERED.
- STANDARD 13 - BUILDING: EXTERIOR INSULATION PANELS.
- STANDARD 14 - BUILDING: VACUUM LEVEL AND GRINDER NOISE ALLOWABLE OUTSIDE.
- STANDARD 15 - BUILDING: EXPANDABLE TO ANY NUMBER OF UNITS AND APPROXIMATELY 10 STORIES IN HEIGHT (AS STACKED FOR TRANSPORT ON A COMMERCIAL SHIP.)
- **TOO MANY STANDARDS! NO, TOO FEW, PROJECT SPECIFICATIONS HAVE MORE!**

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GOALS AND GENERIC PROJECT STANDARDS

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SHEET NUMBER:
CHAPTER: SUMMARY OF PRODUCTS & STANDARDS

CREATED ON: 2023.08.15
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SUMMARIES OF NEW PRODUCTS AND STANDARDS

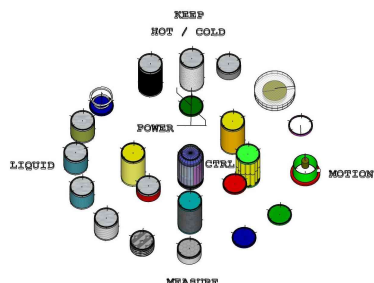
PARTS FOR "THE BOAT."



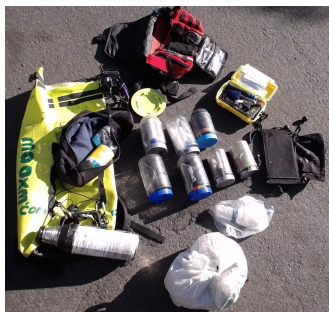
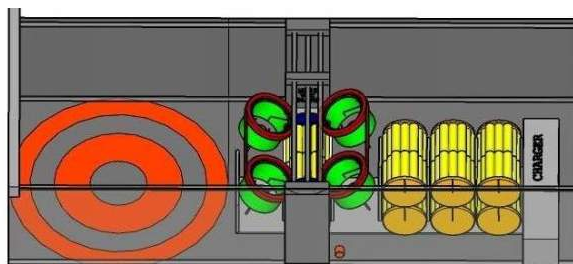


H2. 02 - I BURN & BUZZ. DUAL FUEL AUTOMATED BATTERY AND HYDROGEN SHIPPING LANE SYSTEM

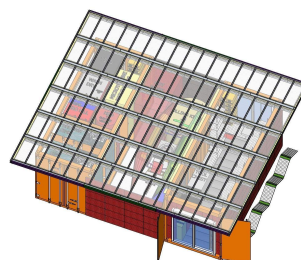
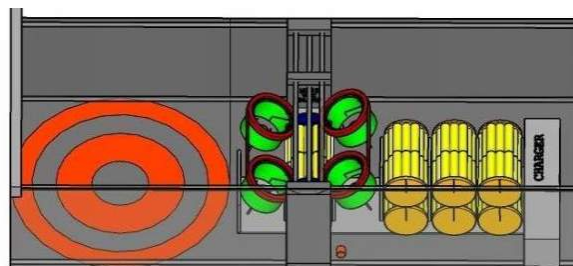
HUMAN



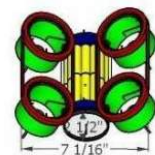
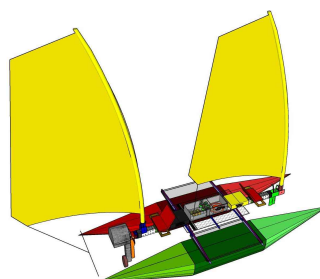
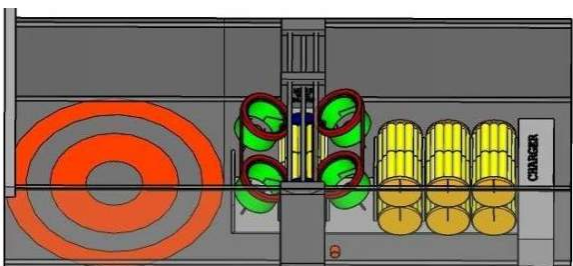
CAR



BUILDING



BOAT



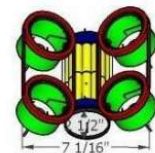
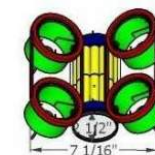
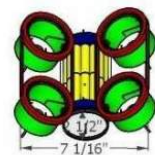
WHY?

ANY LOCATION,
LONG FLIGHT
TIME, FUEL
TANK / BATTERY
SWAP IN AIR OR
SEND POWER
PACKS DOWN AS
LAND ROVERS,

AUTOMATED
TRANSPORTATION
NETWORK FROM
WATER TO
MOUNTAINS
THROUGH BLIMP
HOPS OR SLOWER
MOVING BLIMP.

24-7 RADIO
SIGNAL & IMAGE
PROCESSING.

BALANCE WEIGHT
BETWEEN
HYDROGEN,
BATTERIES, AND
PAYLOAD. ALL
KEPT IN 12OZ
CANS



A.K.A. "AEROSTAT"

FIXED POSITION SHINY BALLOON/BLIMP - SEMI TRUCK
SIZE FOR MANY SMALL DRONES WITH CONSIDERATION
FOR PAYLOADS (ALLOW FOR WEIGHT MANAGEMENT)
SPHERICAL = SIGNAL REPEATER SEE "PROJECT ECHO."

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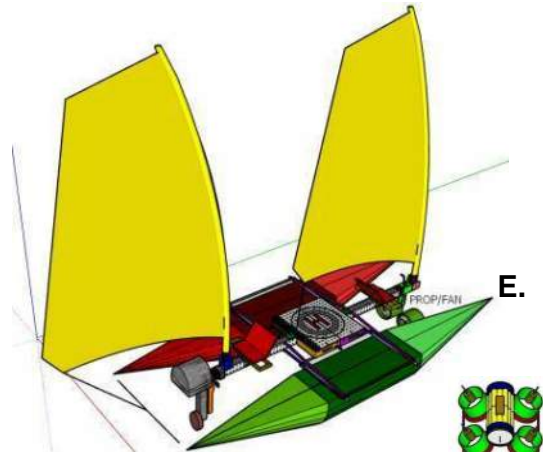
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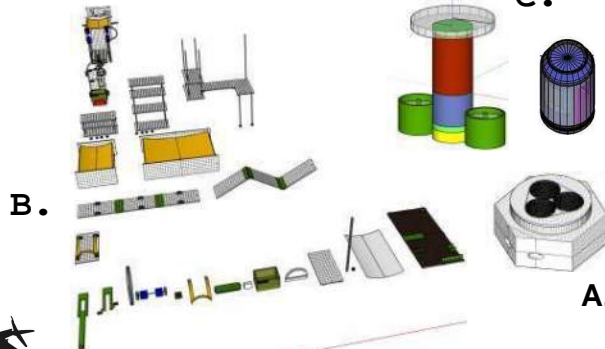
**LIVE, WORK & OWN A PLACE FOR
YOUR BUSINESS.**

CURRENT PRODUCTS/KITS:

- A. PRESSURIZING VESSELS,
LIDS + ADAPTERS
- B. PERFORATED DC PANELS
- C. CANRAD 120Z COMPUTERS,
APPLIANCES & VTOL
- D. 20' ISO CONTAINER MICROFACTORY
- E. SUBMERSIBLE CATAMARAN DRONE
CARRIER



C.



B.



A.

LOOKING FOR PROPERTY

- SAN DIEGO COUNTY AREA, DIRECT
FREEWAY ACCESS NEAR 8&15.
 - **3 PARKING SPACES TO START**
 - LARGE PRODUCTION GARDEN AREA
 - LEGAL TO BUILD ON
 - LIVE/WORK USE
 - 24 HOUR ACCESS
 - DIRECT SUN FOR SOLAR PANELS
 - SHOP NOISE: VACUUM & METAL
WORKING FROM 6AM-10PM (GRINDING)
 - DIRECT STREET ACCESS
 - STANDARD UTILITIES NEARBY
 - TRASH REMOVAL SERVICE
 - NO: PETS, UNLESS CAGED & SEALED
FOR PRODUCTION (NO DOGS, NO CATS)
 - NO: PARTIES, DRUGS, OR ALCOHOL
 - NO: DATING, SEX WORK, POLYGAMY,
OR POLYAMORY
 - FOR LIVE/WORK FABRICATION,
RESEARCH, AND PRODUCTION, NOT A
HOTEL OR APARTMENT.
 - ANY PROPERTY OWNER: CITY
PROPERTY, COUNTY PROPERTY,
FEDERAL PROPERTY, OR
PRIVATE PROPERTY AS LONG AS
AVAILABLE FOR SALE OR LEASE UP TO
100 YEARS AND 24 HR LIVE/WORK.
 - PEOPLE: SMALL BUSINESS ORIENTED
& SHARED FAITH / VALUES.
 - FOR SALE OR LONG TERM LEASE
- PLEASE REPLY WITH PROPERTY
LOCATION AND PRICE OR IF YOU ARE
LOOKING FOR SOMETHING SIMILAR.**
- SCOTT WIDMANN 300X3@POSTEO.NET

OPTION A: 600SF, 3 PARKING SPACES

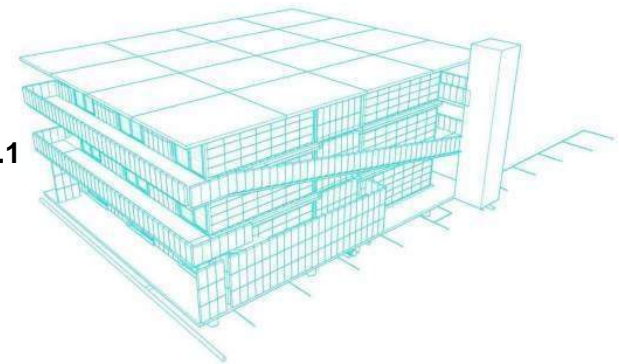
- TWO 20' CONTAINERS,
- 24KW SOLAR ROOF, AUTO SQUEEGEE
- PUBLIC UTILITIES
(VENDING, SHOWER, LAUNDROMAT)



D.0

OPTION B: 3600 SF*3 FLOORS

- LIVE/WORK COMMERCIAL BUILDING



D.1

**A. PRESSURIZING VESSELS, LIDS + ADAPTERS
(AIR, WATER, GAS - FUEL AND WATER)**

DESIGN STANDARD:

- .5IN NPT OR PPT CONNECTIONS.
- .5IN NPT OR PPT EXISTING DEVICES.
- STANDARD WATER BOTTLE LID THREADS ADAPTED TO MATCH .5" NPT & PPT.
(NPT TAPERED FOR PRESSURE, PPT STRAIGHT FOR LESS PRESSURE)

INTENT:

- LIQUID TRANSFER AT PRESSURE OR WITHOUT PRESSURE AND WITH VARIABLE TEMPERATURES
- CONNECT VESSELS AND LINES FOR WATER, FUEL, OR CHEMICAL TRANSFER
- SUPPORT DEVELOPMENT OF PRESSURIZED USES (SM TO LG ENGINES & POWER PLANTS)

C. CANRAD 12OZ COMPUTERS, APPLIANCES & VTOL (INTERLOCKING PUCKS AND AIR/LAND/SEA DRONE)

DESIGN STANDARD

- 96 BOARDS CHIPSET / COMPUTER
 - 12OZ CAN SIZE
- PUCKS FOR NON COMPUTER COMPONENTS
 - LOCKING/THREADING SYSTEM
- ACCESSIBLE FOR REPAIRS BY SELF
 - WATERPROOF CANS & PUCKS
- SHIPPED IN AIR PRESSURIZED 12OZ CANS (STANDARD INTERNATIONAL SIZE)
- CAMERA LENS (RANGE FINDER) MOUNTS @ PUCKS

INTENT:

- SMALL APPLIANCES: CAR/WORK/COLLEGE
- WEARABLE SMARTPHONE REPLACEMENT
- MOTOR CONTROLS (ELECTRIC) INCLUDING: HYDRAULICS, AUTOPILOT, FUEL TRIM MGMT

**E. I'M BUILDING A BOAT
(SUBMERSIBLE CATAMARAN DRONE CARRIER)**

DESIGN STANDARD:

- ONBOARD FUEL PRODUCTION (SOLAR TO HYDROGEN)
- AUTO RECOVERY FROM SUBMERSION (PITCH/YAW/ROTATE/AIR&WATER PUMP)
- ELECTRIFIED DECK FOR VTOL UAV (AUTO LAUNCH, LAND, STOW)
- 2 TO 6 PERSON CREW OR SINGLE HAND
- ANY 2 HULLS: <20' LENGTH OVERALL
- ANY PROPULSION: SAIL, ELECTRIC OR COMBUSTION OUTBOARD, PEDAL FINS, PADDLE
 - 1.5+ KNOTS SOG PER KNOT WIND
- CAR TOPPABLE, CAR RACK FASTENING DEVICE AND LIGHT DUTY PNEUMATIC ARMS (SAME AS COMMERCIAL LADDER RACKS) FOR LOWERING HULLS TO SIDE OF VEHICLE
- AUTOPILOT & HYDRAULIC MANAGEMENT: RUDDER, POINTS OF SAIL, OUTBOARD MOTOR, LIGHTS, AIR/WATER PUMPS, FUEL PUMPS
- BOLT ON ACCESSORIES MATCHED TO .5IN HOLES AT 2"X2" GRID WITH POWER AND CONTROLS PROVIDED BY PANEL GRID
- CONSTRUCTED IN A 20' CONTAINER FOR SECURITY, CURING, AIR EXCHANGE, VACUUM SEALING, WELDING SPARK MANAGEMENT

INTENT:

- RECREATIONAL AND COMMERCIAL (SPORT, AQUACULTURE, DREDGING, MAPPING)
 - NO REGISTRATION COSTS
 - RAPID IN WATER TIME
- RAPID FABRICATION & USE OF OVER THE COUNTER PARTS
- FABRICATED WITHIN 20' ISO CONTAINER
 - SWAMPABLE / SUBMERSIBLE
 - READY TO AUTOMATE
- SWAP PARTS AND TRANSITION THEM TO OTHER LAND/AIR/WATER VEHICLES

**B. PERFORATING DC PANELS
(DECKS, CEILINGS, FLOORS & WALLS)**

DESIGN STANDARD:

- 16"X32" PANEL (2"X2" GRID, .5" HOLES)
 - THREADED WELD STUDS WITH CENTER CHANNEL FOR STRUCTURAL & ELECTRICAL
- MATERIAL: METAL COMPOSITE METAL
- ALTERNATE MATERIALS: SHEETMETAL, STONE, CEMENTITIOUS, COMPOSITE, SEALED PLYWOOD. ANY FACADE MATERIAL
- BRACKETS WITH MATCHING HOLE PATTERN

INTENT:

- CONSTRUCT: FURNITURE, BUILDINGS, EQUIPMENT, AND SMALL VEHICLES (LAND/WATER/AIR)
- ROUTE DC ELECTRICITY AND LOW VOLTAGE CONTROLS THROUGH 4 WIRES (2 POWER, 2 DATA) EMBEDDED IN PANEL
 - FEW/NO WIRES, OR KEPT SHORT

**D. 20' ISO CONTAINER MICROFACTORY, LOOKING FOR LAND
(LIVE/WORK MODULAR MICROFACTORY)**

PROPERTY DETAILS:

- 3 SIDE BY SIDE PARKING SPACES, ~800SF
- 9FTX25FT PER SPACE, 27FTX25FT TOTAL
- FOR PURCHASE OR LEASE (\$10K +/-)
- ZIP CODE: 91941, 91942 (NEAR 8&15)
 - DIRECT SUN (NO SHADE)
- UTILITIES: NATURAL GAS, CITY SEWER, CITY STREET/CURB & ADDRESS
 - CITY WATER: PREFERRED
- CITY ELECTRICITY: PREFERRED
 - 24 HOURS ACCESS
- SHOP VACUUM LEVEL NOISE
- ANY FACADE (PERFORATED PANEL ABOVE)
- SHIPPING CONTAINER & STRUCTURAL METALS
 - INDOOR = FABRICATION, OUTDOOR = PUBLIC AMENITIES BY MEMBERSHIP CARD (TOILET, SHOWER, WATER, LAUNDRY, VEND)

**BUSINESS UNITS &
INITIAL USE CASES / INDUSTRIES**

BUSINESS A - PRESSURIZING VESSELS
(LIDS + ADAPTERS.)

AIR, WATER, FUEL - ADAPTIVE USE OF
CONSUMER BOTTLE/VESSEL ADAPTERS &
HYDROGEN COMBUSTION KITS FOR
MICROTURBINES, MOPEDS, AND TRIKES.

- WATER HYDRATION DRINKING PACK WITH
REPLACEABLE BOTTLES
- SUCTION TUBE (AQUARIUMS, BIRD /
BAPTISMAL BATHS)
- SAP COLLECTION
- VETERINARY: CYST DRAINING, LIQUID
WASTE, URINE CAPTURE AND DISPOSAL, ENEMA
- HAZARDOUS WASTE: OIL CAPTURE AND
DISPOSAL, GAS SIPHONING, DISPOSABLE OR
EMERGENCY GAS TANK
- STEAM OR PRESSURE VESSEL
- STERILIZATION OF BOTTLES
- SCIENCE EXPERIMENTS (PRESSURE VESSELS
AND TURBINES) A "STEM KIT"
- COOKING FROM FOSSIL FUELS OR WITH
ELECTRICITY (HEATING ELEMENT, BUNSEN, OR
STERNO)
- MASON JAR AQUARIUMS

BUSINESS B - PERFORATED DC PANELS

(DECKS, CEILINGS, FLOORS & WALLS,
CHASSIS.) INNER TUBE+FIN GRID AS
STRUCTURAL BATTERY.

- FURNITURE - SIGNAGE BACKPANEL,
SHELVES, DESK, BENCH, COT/BED
- WHEELED VEHICLES: TRAILER, GOKART,
RECUMBENT BICYCLE
- BACKPACK
- STRETCHER, ROOF RACK
- BUILDING COMPONENTS: GATE, DECK,
FLOOR, EXTERIOR SKIN, CEILING, RAILING

BUSINESS C - CANRAD 120Z COMPUTERS,
APPLIANCES & VTOL

(LABOR SAVING AUTOPILOT & DAILY USE)

- MOTOR CONTROLLER - ELECTRIC AND
PRESSURIZED GAS (COMBUSTION)
- DESKTOP COMPUTER
- RADIO (LISTENING)
- RADIO (COMMUNICATION)
- MESH WIFI REPEATER
- LANTERN
- DIRECTIONAL LIGHT
- SAILBOAT TRILIGHT
- BICYCLE TURN SIGNALS & HEADLIGHT
- WATER PUMP
- AIR PUMP
- ICE CREAM MAKER
- INVERTER
- WATER HEATER
- AIR HEATER
- SMALL VACUUM
- BLENDER
- FAN
- HAIR DRYER / AIR HEATER
- SOLAR CHARGE CONTROLLER
- AC INVERTER
- MOTOR CONTROLLER - AIR/LAND/SEA DRONE
/ VEHICLE. AUTOMATED MEASUREMENT,
ORGANIZATION, AND FARMING.

BUSINESS D - 20' ISO CONTAINER
MICROFACTORY

LOOKING FOR LAND (LIVE/WORK MODULAR
BUILDING) - SHIPPING CONTAINER +
PERFORATED PANEL BUILDING KITS.

- LIVING+OFFICE UNIT
- FABRICATION UNIT
- LABORATORY UNIT
- GROWING UNIT
- UTILITY UNIT (AIR, WATER, POWER,
SANITATION, VENDING)

BUSINESS E - I'M BUILDING A BOAT
(SUBMERSIBLE CATAMARAN DRONE CARRIER.)

A CATAMARAN DECK BUILT ON A PERFORATED
CENTER BEAM, AND ATTACHED BY POLES TO
EXISTING HULLS WITH HYDRAULICS TO
RAISE/LOWER (~20' LENGTH OVERALL: KAYAK
/ SURFSKI / OUTRIGGER CANOE / PONTOON.)
YES, YOU COULD USE A TORPEDO OR MISSILE
OF SOME KIND - IF YOU DO, USE THEM FOR
PROPULSION AND GUIDANCE ONLY;
"UPCYCLE", NOT "DOWN-EXPLODE." THIS
VEHICLE WILL NOT TRAVEL FAST UNDERWATER
LIKE A LARGE SUBMARINE OR A TORPEDO
DOES, SHALLOW DEPTH SUBMERSION/SWAMPING
IS FOR RECOVERY FROM SWAMPING AND
COMMERCIAL USE (PUMPING EQUIPMENT OR
OTHERWISE LOWERED TO SEABED.)

- RECREATION: SAILING, SPEED, CAMPING,
DIVING, TOURISM - TRANSPORT FROM
MAINLAND TO ISLANDS.
- IMAGING: SONAR, LIDAR, PHOTOGRAMETRY,
FISH SPOTTING.
- AQUACULTURE: FISH, SHELLFISH: 100'+
DIAMETER FLOATING HOOP NETS, AND
SHALLOW WATER.
- DREDGING: SEA AND NARROW WATERWAYS.
- TRANSPORT: ROUGH RIVERS, WHITE WATER.
- MILITARY: DRONE LAUNCH, TRANSPORT AND
RECOVERY, ROCKY ENTRY TO WATER
- EMERGENCY RESCUE: INFLATABLE DROP+TOW

SPECIAL PROJECTS GROUP
CATCH-ALL FOR MISCELLANEOUS PRODUCTS AND ACCESSORIES.

1. FOAM BALL HAND SANDER - HEAVY MUSCLE SOARNESS MASSAGE & MASTURBATOR.
2. WATER VENDING MACHINE - HOT WATER AND COLD WATER FOR INDEPENDENT USE / FILLING
3. CAR SOLAR KIT - HOUSE AND CAR BATTERY USE AT NIGHT AND DURING DAY (LIVING IN CAR): OFFICE, LAPTOP, LIGHTS, ETC.
4. DREDGING BASKET - BEACH CLEANING, DREDGING FOR WATER AQUEDUCTS, SEAFOOD & SHELLFISH, SHALLOW MINING / DREDGING, REMOVAL OF FOREIGN OBJECTS FROM SILT IN BAY AREAS - PARTICULARLY MAN MADE ONES.
5. CLOTHES WASHING MACHINE WITH HOT AIR CIRCULATION & HUMIDITY REMOVAL (WASHER/DRYER COMBO)
6. RUBBER SHEET REPAIR CLAMP - REPAIR OF HYDRATION BAGS.
7. 5 GALLON PUMP & MACERATOR - SUMP PUMP, HYDROPONICS / GARDEN PUMP, MACERATE SOIL, WASTE PUMP.
8. REVERSE OSMOSIS CAP AND KIT - SALT WATER PURIFICATION WHILE MOBILE, EMERGENCY WATER AFTER NATURAL DISASTER, BOATING WATER SOURCE, BEACH WATER SOURCE (RINSE, COOK, CLEAN, SHOWER.)
9. STAINLESS STEEL VESSEL LINING - HYDROGEN/FUEL FILLED BOTTLES *USE VACUUM SEALED EXISTING BOTTLES (MEDIUM TEMPERATURE). HELD IN STANDARD BOTTLE HOLDERS - BICYCLES, GOKARTS, BOATS, PERSONAL USE, ANY SMALL VEHICLE THAT NEEDS A FUEL SOURCE. FILL WITH PROPANE / NATURAL GAS IF PREFERRED.
10. SOLAR TO HYDROGEN PRODUCTION PANEL (TEAM WITH SUNHYDROGEN - EXISTING STARTUP)

11. ELECTRONIC FUEL INTAKE - CONNECT TO COMBUSTION ENGINE TO USE HYDROGEN FOR COMBUSTION IN LIEU OF NATURAL GAS OR PROPANE. ALREADY AVAILABLE ON MANY GENERATORS.
12. USB-A TOOLS: SOLDERING IRON, CUTTING TOOL (DREMEL), TOOTHBRUSH
13. COMBINATION PNEUMATIC AND ELECTRIC RIM DRIVEN MOTOR / FAN.
14. SMART WATCH PROJECT BOX BAND LINK
15. ALUMINUM DISH SLED
16. AIR & WATER PNEUMATIC LAUNCHER: BB, BOLT, T-SHIRT, BEANBAG, ETC.

CONTRACTING 1 - TRUCKING & HOISTING
SEPARATE ENTITY FROM BUSINESS D MICROFACTORY BECAUSE OF INFREQUENCY OF USE. INTENT IS TO SHIP AND PLACE BUILDINGS VERY QUICKLY (IDEALLY IN A SINGLE DAY WITH LIFTING AND TRUCKING RENTAL EQUIPMENT FROM THIS ENTITY.)
CONSTRUCTION MATERIAL DELIVERY - WAREHOUSING AND JUST IN TIME DELIVERY TO A SITE INCLUDING EQUIPMENT RELATED TO PLACING MATERIAL AT HEIGHT (FORKLIFT.)

CONTRACTING 2 - STREET RESOURCE & HIGH DEFINITION MAPPING, LAND & WATER.

WEBSITE WITH PRINTABLE WATERPROOF MAPS OF EXISTING "STREET RESOURCES" (GYMS, HOMELESS /HOUSELESS, CHURCHES, CAMPSITES, WATER FILLS, FOOD, ETC.) COMBINED WITH LIDAR AND PHOTOGRAMMETRY IMAGERY. STREET RESOURCE & HIGH DEFINITION MAPPING - LAND & WATER, WEBSITE WITH PRINTABLE WATERPROOF MAPS OF EXISTING "STREET RESOURCES" (GYMS, HOMELESS/HOUSELESS, CHURCHES, CAMPSITES, WATER FILLS, FOOD, ETC.) COMBINED WITH LIDAR AND PHOTOGRAMMETRY IMAGERY.
IMPROVED LAYER FOR EXISTING WEBSITE:
"OPEN STREET MAPS."

REALITY CAPTURE - IMAGING, PROCESSING, AND PRESENTATION THROUGH MAPS / 3D. AERIAL, TERRESTRIAL, AND UNDERWATER.

PRODUCT & KIT STATUS:

DETAILED DRAWINGS AND INITIAL CNC 3D MODELS EXIST FOR MOST OF THE ITEMS BELOW, BUT THEY HAVE YET TO BE FABRICATED BY CNC AND ERROR RATE WILL BE HIGH. ACTUAL USE CASES FOR EACH PRODUCT ARE NUMEROUS. SEE PART 3 FOR THOSE DRAWINGS.

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SHEET NUMBER:
BUSINESS UNIT USE CASES & INDUSTRIES 2/2

CREATED ON: 2023.08.15
LAST UPDATED: Tue, 2024/Jun/25 16:05

FOR FUTURE BY INDIVIDUAL BUSINESS UNITS:

PRIORITY: SHOP DRAWING CLEANUP > PART SOURCING LOG > 3D DESIGN REVISION TO MATCH PARTS
AND ALWAYS: FIND THE PEOPLE WHO BELIEVE IN THE WORK AND THE VALUES, INDEPENDENTLY OR AS A TEAM.

LIQUIDS KIT (DESIGN COMPLETE, 3D PRINT PENDING)
(THAT'S NOT WHAT A WATER BOTTLE IS FOR!)
A.1. DRINK, A.2. BOIL, A.3. COOK.

PERFORATED PANEL KIT (DESIGN COMPLETE, WOOD PROTOTYPE IN USE, MCM PROTOTYPE PENDING)
(FULL OF HOLES.)

B.1. HANG YOUR SHINGLE, B.2.3. PACK IT IN, B.4.5.6. WHEELING AND DEALING,
B.7.8.9. RESTING FOR A SPELL, B.10.11.12. FURNITURE GROWS ON FLOORS AND CEILINGS.

CANRAD PERSONAL COMPUTER KIT (DESIGN 60% COMPLETE, PART SOURCING)
(I'M NOT ARTIFICIALLY INTELLIGENT.)
C.1. DESK-IT, C.1.A BAG-IT, C.1.B BELT-IT.

CANRAD PORTABLE APPLIANCES KIT (CONCEPT COMPLETE, DESIGN IN PROGRESS 10%)
(HONEY I SHRUNK THE _____.)
C.1.C.D.E. WATER PUMP, C.1.F.G.H. THERMODYNAMICS, C.1.I.J.K.L.M.N. POWER UTILITY, C.1.O.P.Q. CAMERA.

CANRAD CANBOT KIT (CONCEPT COMPLETE, PART SOURCING, REDESIGN)
(DOESN'T REQUIRE LOVE, OR FOOD, AND CLEANS THE NEIGHBORS' DOG SHIT OFF YOUR FRONT LAWN.)
C.2.A.B.C. HOVER 'TIL YOU DROP, C.2.D. WHEELING AND DEALING, C.2.E. SINK OR SWIM, C.2.F. GLIDE AND DIVE

CANRAD U.F.O. BUILDING KIT (DESIGN 60% COMPLETE)
(A BOX FOR MORE THAN YOUR STINKY SOCKS.)
D.1.A.B.C. - POWERING UP SOMEONE ELSE'S ROOF, D.2.A.B. OFFICE WORK, D.2.C.D.E.F.G.H.I.J. SANITARY SALES,
D.2.K.L.M.N. INSULATED, SECURE, AND SELLING POWER TO THE GRID.

BOAT KIT (DESIGN 60% COMPLETE)
(IT'S NOT AN ARK, THAT STOPPED HAPPENING A LONG TIME AGO.)
E.1.A.B. JUST PADDLING, E.2.A.B.C. NO TRAILER- YOU BETTER STILL HAVE ROOM FOR A CHAIR OR I'M GOING TO BAIL!
E.3.A. LET'S GO FASTER - IT'S A BREEZE AND A BUZZ, E.4. WE'RE SINKING - NOT FOR LONG THOUGH, E.5. I'D RATHER YOU DID THIS
FOR ME, ZERO.6.A. SWAPPED FOR A ROBOT, ZERO.6.B WHO ELSE IS AROUND HERE ANYWAYS?

MISCELLANEOUS SMALL PRODUCTS (TO BE ORGANIZED, DESIGN 30% COMPLETE)
F. EXAMPLE: WATCH LINK PROJECT BOX

LINK TO 3D MODELS: <http://u.pc.cd/jJXrtalk>
LINK TO 2D SHOP DRAWINGS: <http://u.pc.cd/Jw6ctalk>
PROCUREMENT LOG:

MORE INFO:
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300X3.COM
300X3@POSTEO.NET

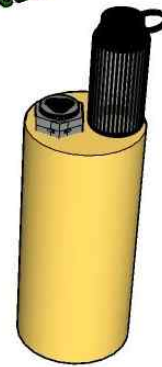
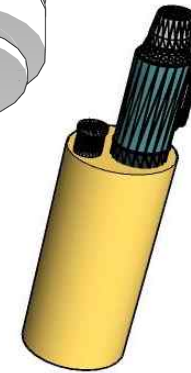
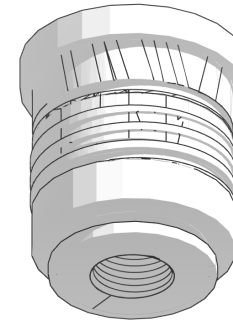


GET CANNED

A. I'M EVERYTHING LIQUID AND STEAM.



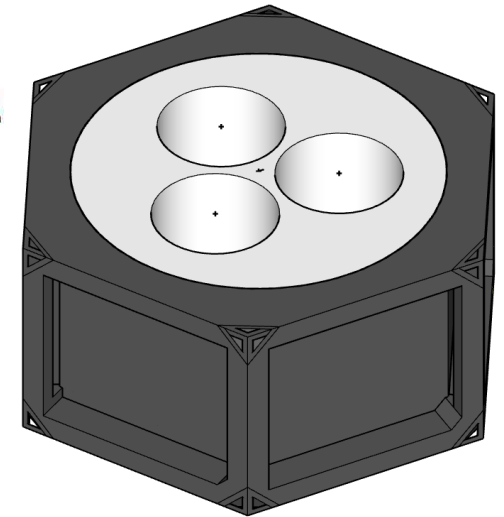
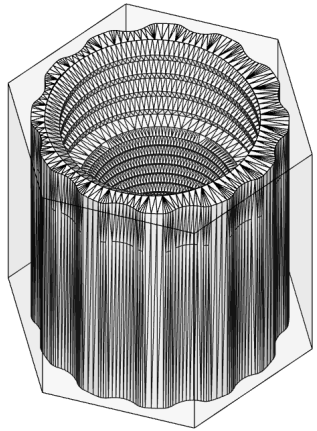
WE CONNECT WITH
.5 IN NPT THREADS



I COOK

I BOIL

I DRINK



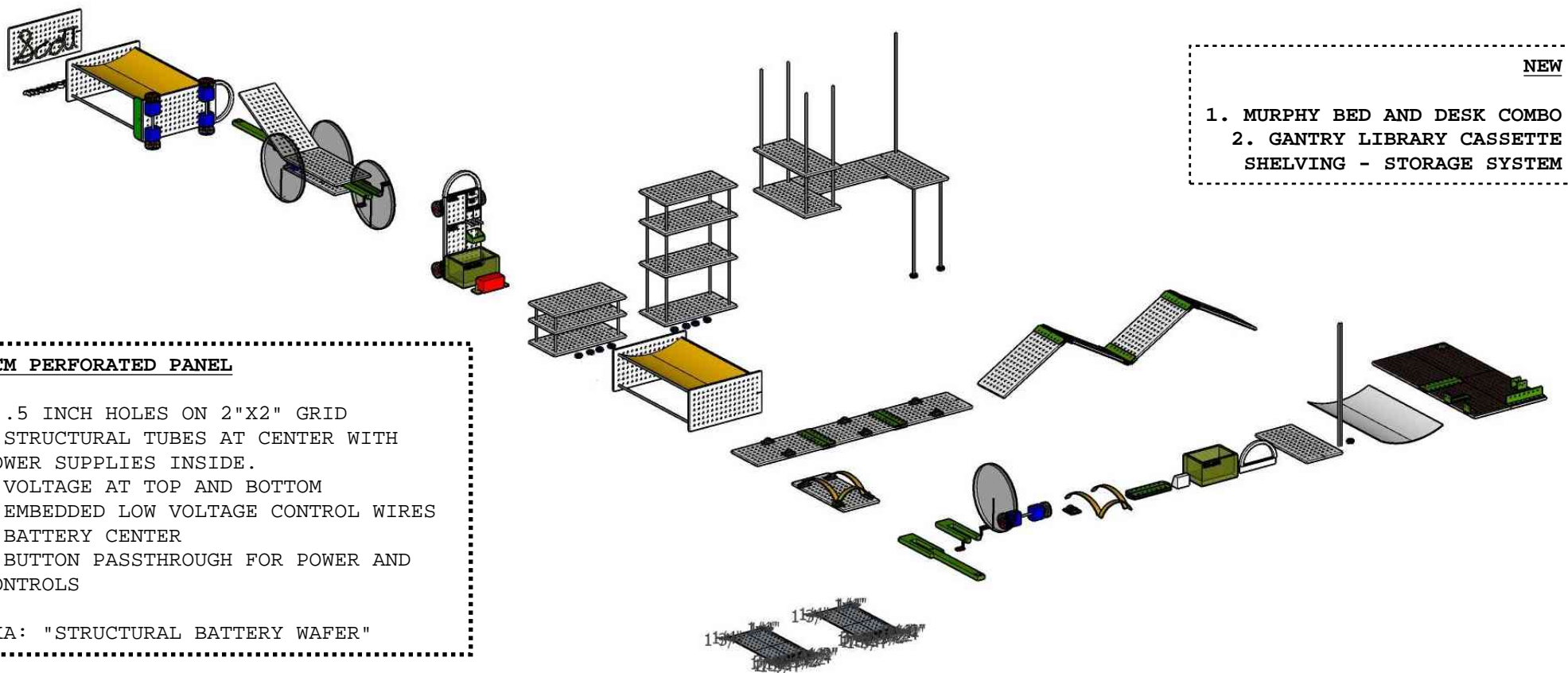
LID ADAPTERS TO .5" NPT THREADING.

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SHEET NUMBER:
EXEC SUMMARY: LIQUIDS KIT

CREATED ON: 2023.08.15
LAST UPDATED: Tue, 2024/Jun/25 16:05

B. I'M FURNITURE AND SMALL VEHICLES.



C.1. I COMBINE YOUR COMPUTERS AND APPLIANCES, 12OZ BEVERAGE SIZE FROM YOUR OWN VENDING HANGAR!
THEN CONNECT THEM TO: ROLL, FLY, AND SWIM THEMSELVES.



HOW ABOUT A CAN INSTEAD OF A CANDYBAR?

DRAWBACK: SMALL
QUANTITIES, FEWER
ECONOMIES OF SCALE / LESS
EFFICIENT

BENEFITS: CHEAPER THAN OTHER
APPLIANCES, MOBILE, STANDARD AND
NON-STANDARD USE CASES, STANDARD
BATTERIES (AA), UNIQUE OPERATING
MODES INCLUDING: PERSONAL/MANUAL
AND AUTOMATED/ROBOTIC.

YOUR POCKET WON'T HOLD IT.

LIQUID

POWER

KEEP
HOT / COLD

CTRL

MOTION

MEASURE

COMPUTER
OS: EREADER, LINUX, LEGACY OS'S
RADIO TUNER
CLOCK
ROBOTICS
LEGACY SUPPORT (WIN, ETC.)
MONITOR GLASSES DRIVER

LIGHT (AREA, DIRECTIONAL, SIGNAL,
TRICOLOR *BOATING)
AA CHARGER & POWER BANK (USB)
CAPACITOR
(MOTOR POWER SUPPLY)
POWER MANAGEMENT (LOW & HIGH VOLT)
AC INVERTER
SOLAR PANELS - ROLLED TUBE
PEDAL CRANK CHARGER
MULTI-FUEL MOTOR
(ELECTRIC / COMPRESSED AIR)
GASEOUS FUEL TANK

WATER PUMP
WATER FILTER
WATER MACERATOR/PUMP
AIR PUMP / VACUUM
Peltier COOLING & HEATING
(AIR & WATER)
ICECREAM TUBE MAKER &
IMMERSION BLENDER
EMPTY (STORAGE / LEFTOVERS)

LIDAR RANGER FINDER
CAMERA PHOTO SENSOR

ELECTRONIC SPEED CONTROLS
DUCTED FAN & TIRE ASSEMBLY
TRANSMISSION (TANK TREADS)
CONTRA MOTOR
FOLDING WING CARTRIDGE

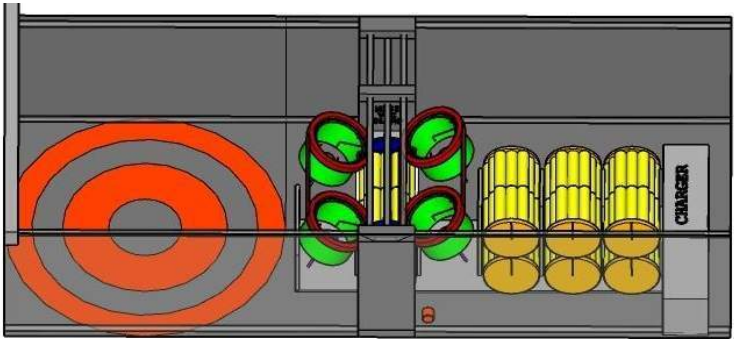
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SHEET NUMBER:
EXEC SUMMARY: CANRAD PC & APPLIANCE KIT

CREATED ON: 2023.08.15
LAST UPDATED: Tue, 2024/Jun/25 16:05

C.2. I SEE, MEASURE, GARDEN, CLEAN, AND CARRY (RAIN OR SHINE, ONE 12OZ CAN AT A TIME.)

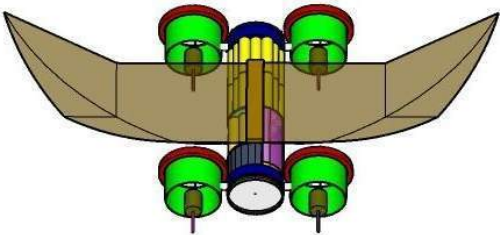
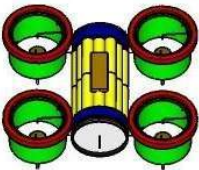
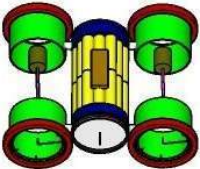
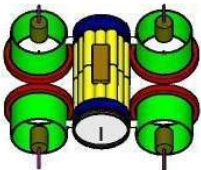
CNC GANTRY
AUTOMATED
BATTERY &
CARGO
EXCHANGE +
CHARGE



REMOVABLE PC



SERVO
PIVOT
MOTOR
POSITION



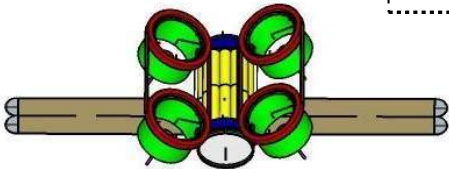
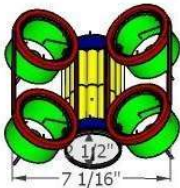
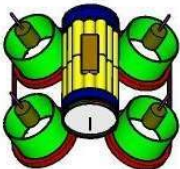
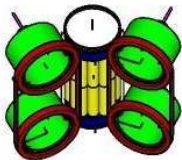
FLOAT

DRIVE

FLY

PLANE

A ROBOT AND A
LONGER LUNCH FOR
EVERY JANITOR



SEA

LAND

HELO

AIR

SUB

TANK

HELO

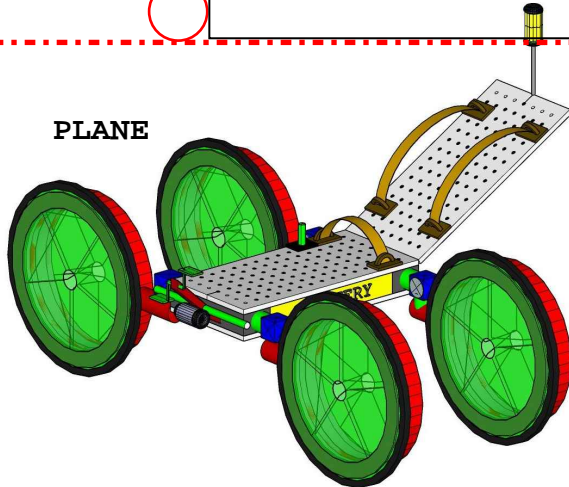
GLIDE

DIG?

BENEFITS: LAND/SEA/AIR, HIGH DURABILITY, LONG OPERATION, STANDARD POWER SOURCE, RAPID AUTOMATED POWER AND PAYLOAD SWAPPING, RAPID MAINTENANCE / ENGINE SWAPPING, ONBOARD COMPUTER SWAPPING, SMALL EXISTING STANDARD PAYLOAD

SIZE. DRAWBACK: SLOW SPEED, SMALL PAYLOAD.
IF YOU CAN'T FIGURE THAT OUT, THEN YOU DIDN'T MAKE "THE CUT..." UPGRADE TO A 5 GALLON BUCKET, THEN A 55 GALLON DRUM TO CONQUET PHYSICS WITH HIGH RPM MULTI-FUEL RIM DRIVEN MOTORS (ELECTRIC + COMBUSTION PROPS, NOT JETS.)

PLANE



C.51 - CANRAD UFO
OR WITH A 55 GALLON DRUM!
WHERE DID THIS COME FROM?...

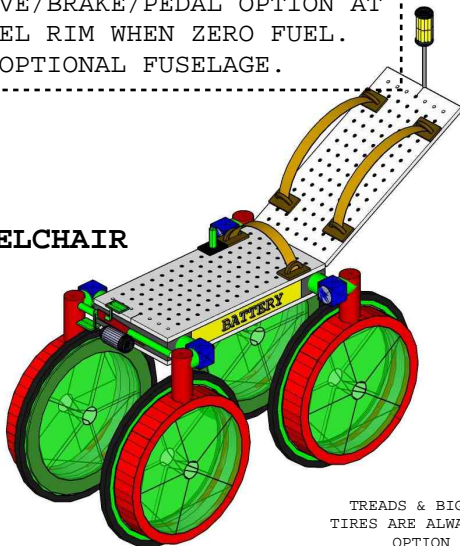
BENEFITS: ANY MODE OF
TRANSPORTATION, EFFICIENT
& LIGHT, ACTIVE SUSPENSION

DRAWBACKS: OPEN COCKPIT,
RELIES ON A COMPLEX
COMPUTER FOR MOST USES

KEY PARTS:

1. RIM DRIVEN ELECTRIC FAN+WHEEL.
2. TWO AXIS PIVOT ARM.
3. CAN COMPUTER CONTROLS, LIGHTS, IMAGING.
4. OPTIONAL JET INTAKE TO IN-RIM TURBINE (SEE XV-5A + ELECTRIC RIM DRIVEN FAN.)
5. STANDARD FRICTION DRIVE/BRAKE/PEDAL OPTION AT WHEEL RIM WHEN ZERO FUEL.
6. OPTIONAL FUSELAGE.

WHEELCHAIR



TREADS & BIGGER
TIRES ARE ALWAYS AN
OPTION

JOYSTICK CONTROLS

BIKE PEDALS TO
FRICTION DRIVE AXLE
TOUCHES TIRE RIM
OR ADD GEARS

IMAGING & COMPUTER
CONTROLS
AUTOPILOT MODULE

MOTOR
SPEED
CONTROLS

HELO

HARNESS

LIGHTS & SIGNA

LOCKING PIVOT

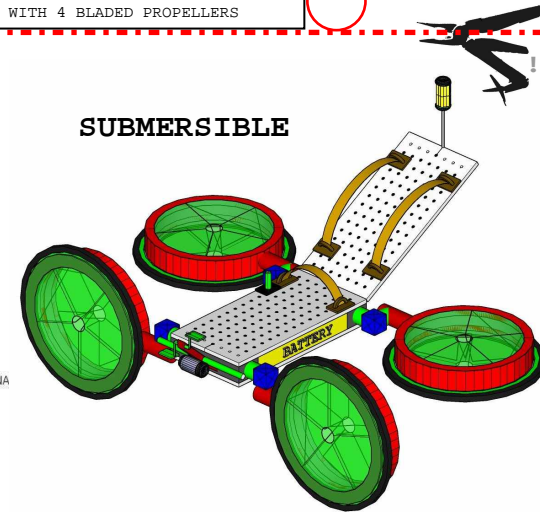
2 AXIS PIVOT - ELECTRIC MOTORS

RIM DRIVEN
RELUCTANCE ELECTRIC MOTOR
FAN AT INTERIOR OF CIRCLE
BICYCLE TIRE WRAPPED EDGE
(ATTACHED TO PROP)

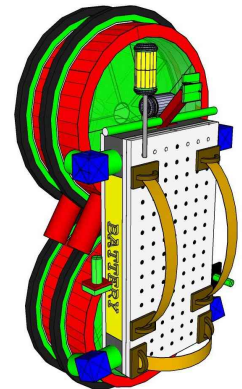
OPTION: PRESSURIZED GAS INTAKE

HAND BRAKE - BASIC FRICTION BRAKE

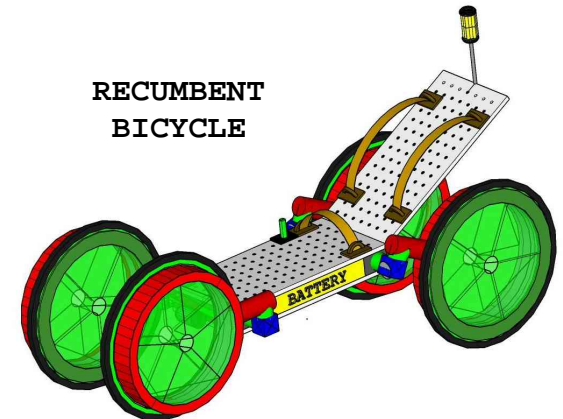
SUBMERSIBLE



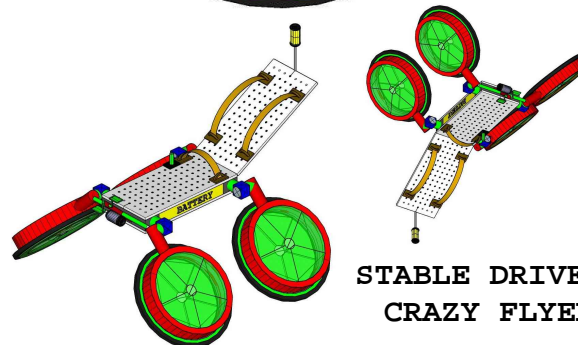
BACKPACKABLE



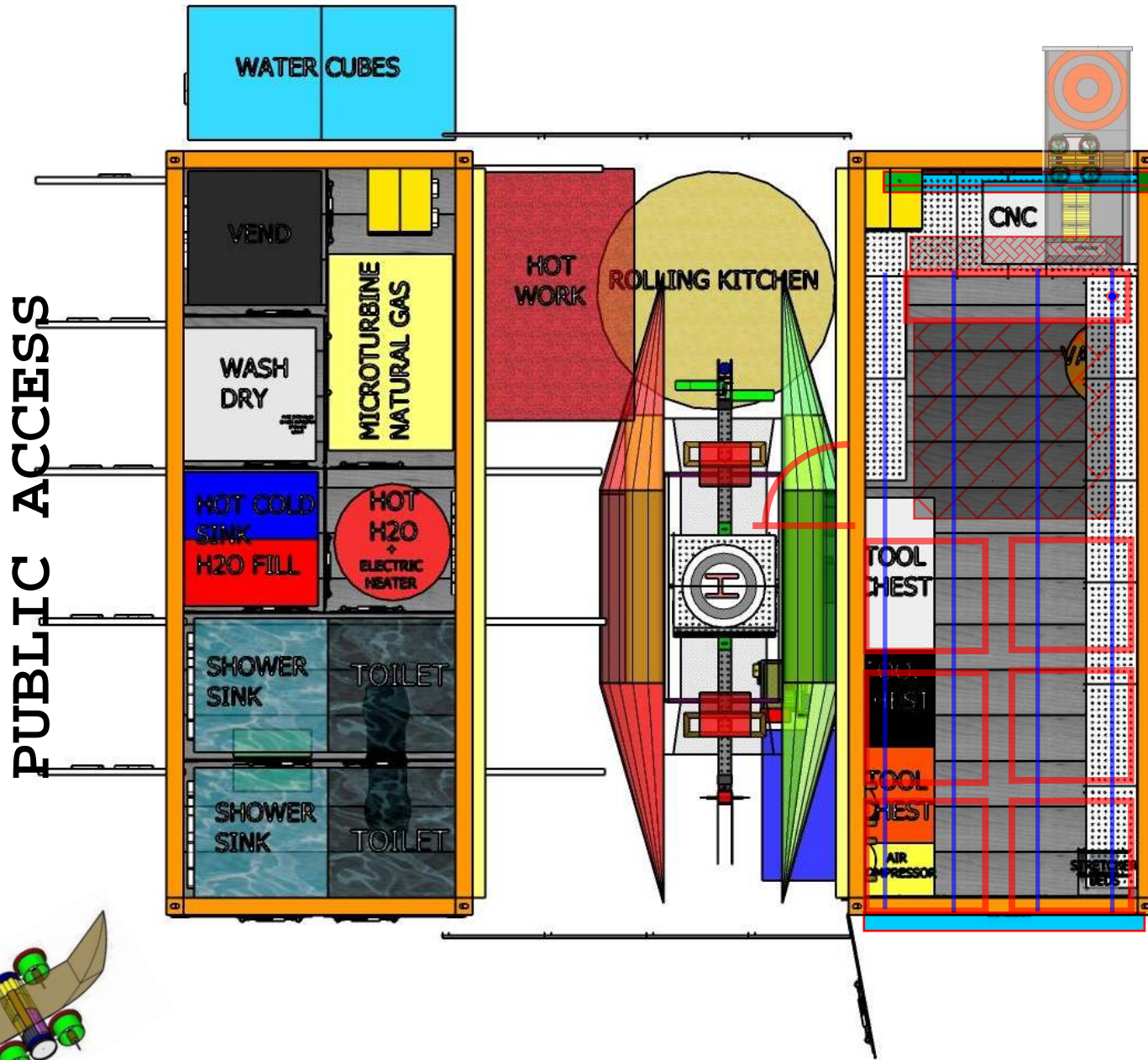
RECUMBENT
BICYCLE



STABLE DRIVER,
CRAZY FLYER



D. I AM A SECURE LIVING, WORKING, AND PUBLIC SALE ENVIRONMENT.



SMALL
BIRD...DOG...
FISH?

BENEFITS:

PUBLIC/PRIVATE ACCESS,
LIVE/WORK, SECURE, LOW
FABRICATION & UTILITY
COSTS, MODULAR, MOBILE,
APPROACHING AUTOMATED
OPERATION
(GATES/ROBOTICS/BOAT.)

DRAWBACKS:

SMALL, INDUSTRIAL
FEEL/MATERIALS, SOME
MAINTENANCE
(WATER/POWER/DOORS.)

RED & BLUE OPTION:

SIX ROLLING CASSETTE
SHELVES + CASTERS BELOW
(ALIGNED TO 4 UNISTRUT
LENGTHS WITH PINS FOR
ANTI-TIP/STRAIGHTEN),
QUEEN SIZE BED + DOUBLE
DESK (INDIVIDUAL HEIGHT
ADJUSTMENT), AND
ELECTRICITY THROUGH
TRACK. MAXIMIZES
STORAGE, FREE SPACE,
DESK & BED SIZE.

*** TURN ON/OFF WITH
THE PDF "SKETCHES"
LAYER ***

MAINTAINING SEPARATION
BETWEEN WATER WET AND
DRY BOXES IS CRITICAL.



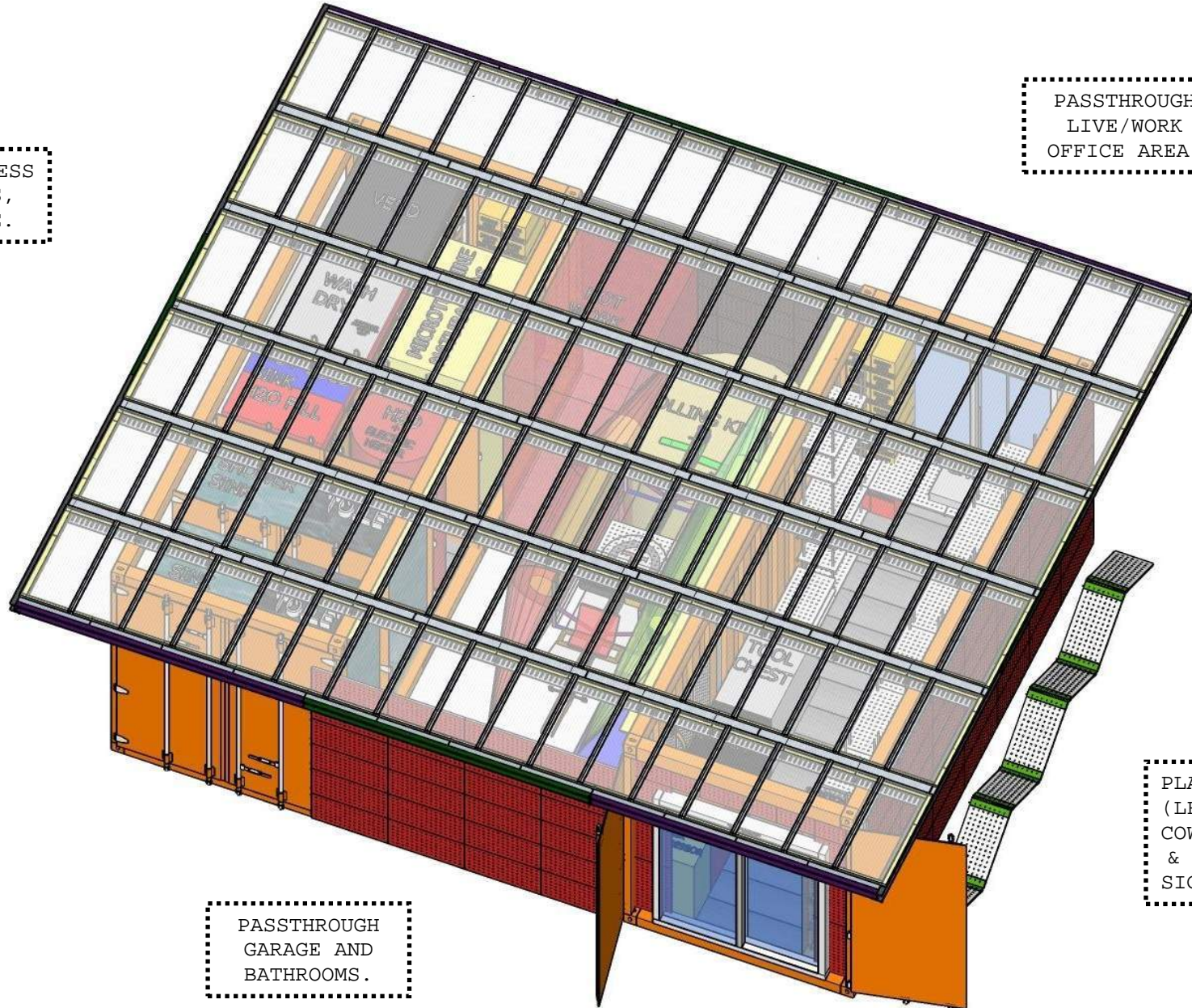
HIGH
ONE

D.Y. I PROVIDE ACCESS TO: SNACKS, SHADE, LIGHT, INTERNET, PLACES TO SIT, WATER, HYGIENE, AND TOOLS.



PUBLIC ACCESS
AND SALES,
THIS SIDE.

PASSTHROUGH
LIVE/WORK
OFFICE AREA.



PASSTHROUGH
GARAGE AND
BATHROOMS.

PLACES TO SIT
(LE CORBUSIER
COWBOY CHAIR)
& 20'X8' LIT
SIGNAGE WALL.

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SHEET NUMBER:
EXEC SUMMARY: BUILDING KIT, 3D VIEW

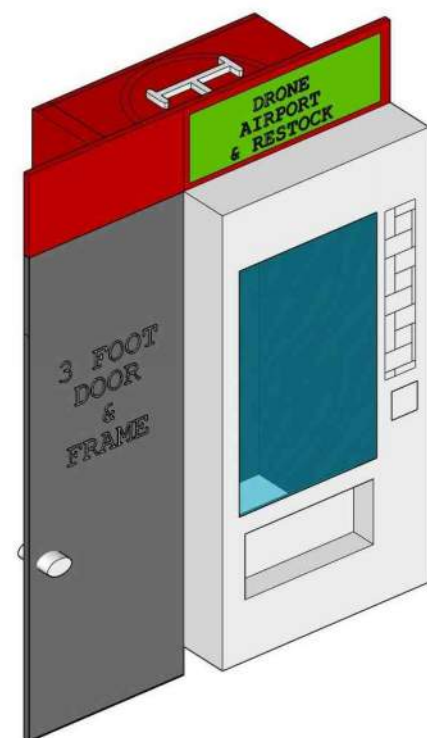
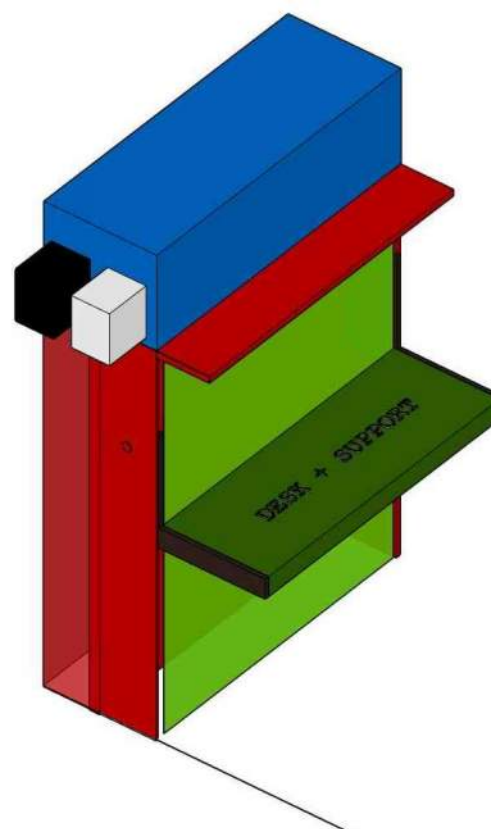
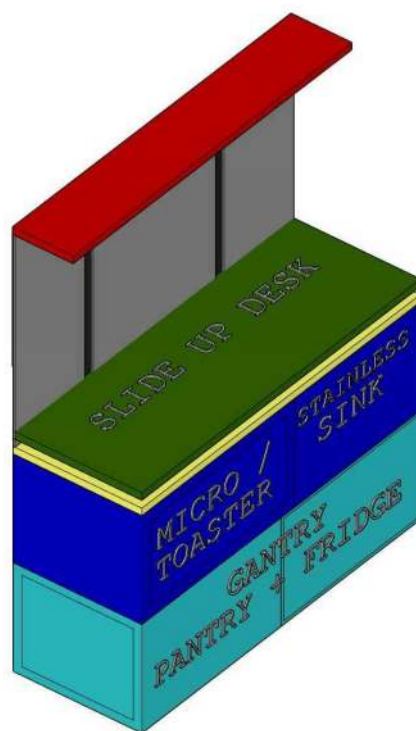
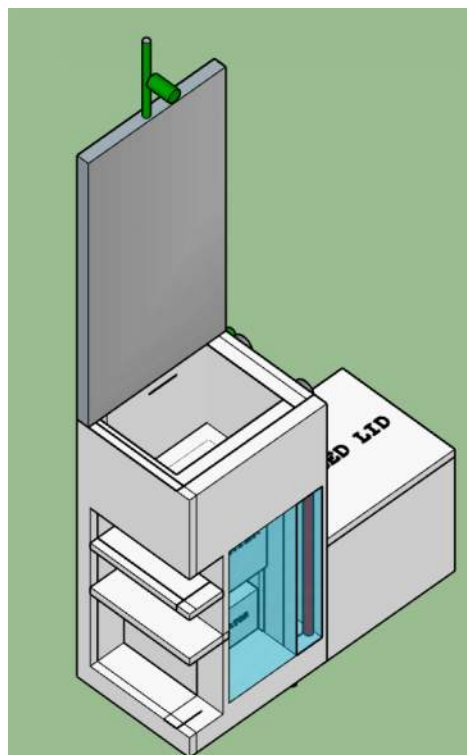
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BATHROOM:
TOILET, SINK,
SHOWER, HEATER.

KITCHEN:
SHELVES, SINK,
COUNTER,
RAISING DESK

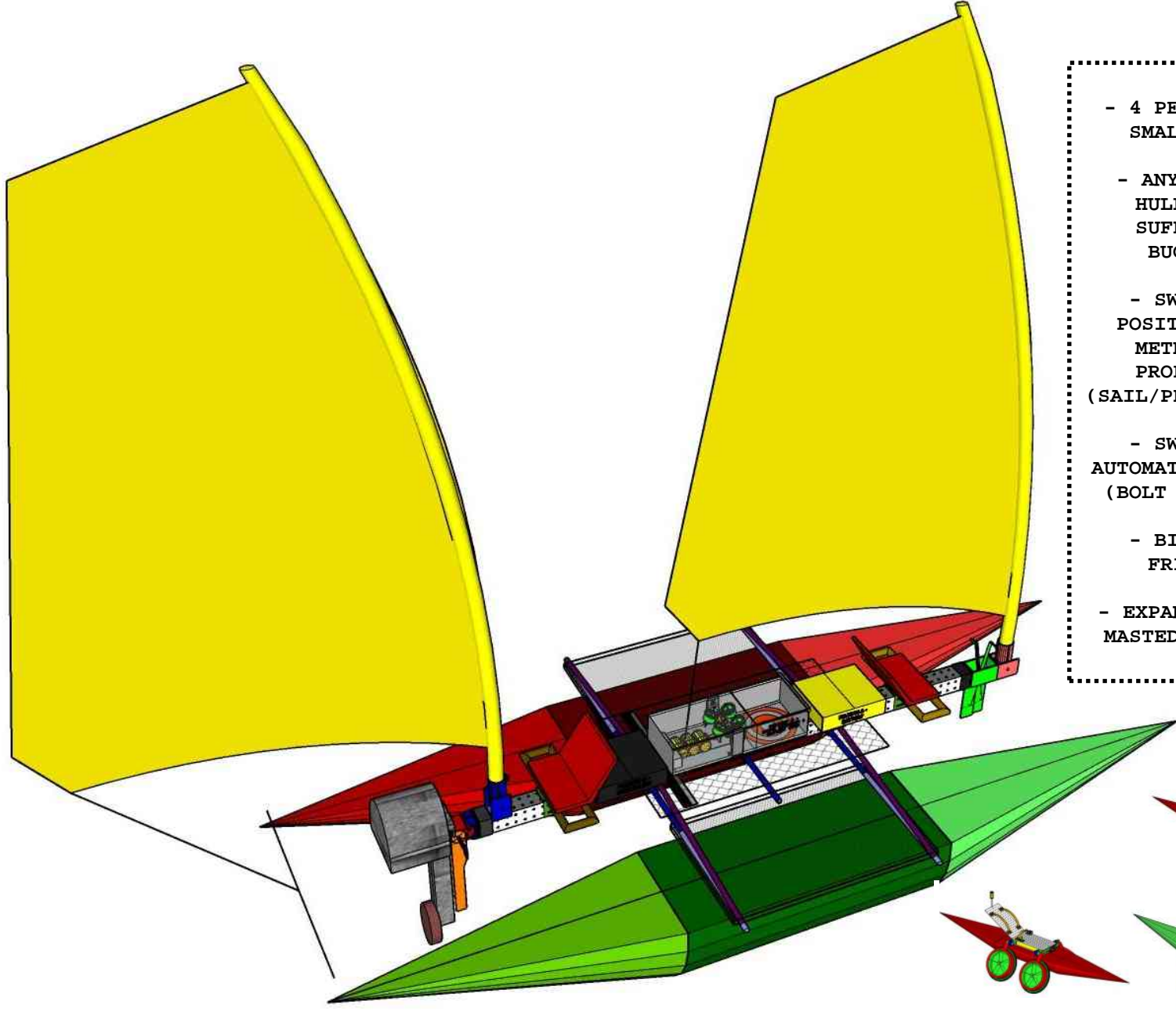
BEDROOM:
MURPHY BED, HVAC
UNIT, CLOSET
SHELVES,
SWINGING DESK

FRONT DOOR &
STORE:
3' DOOR,
VENDING/SALES,
DRONE HANGAR



E. I FISH, GATHER, PUMP, AND CARRY - ON WATER, AND JUST BELOW THE SURFACE.

- HYDRAULIC AUTOMATION
- LIGHT DUTY SUBMERSIBLE (SHALLOW DEPTH)
- MULTIPLE PROPULSION METHODS
- ADJUSTABLE HEIGHT AND STABILITY (HYDRAULIC ARMS)
- ALTERNATE: RIM DRIVEN PROPELLER WITH HYDROGEN OR ELECTRIC DRIVE (MULTIPLE FUEL SOURCES FROM STANDARD SOLAR PANELS AND HYDROGEN TANKS IN-HULL.)



- 4 PEOPLE ON A SMALL CRAFT
- ANY 2 OUTER HULLS WITH SUFFICIENT BUOYANCY
- SWAPPABLE POSITIONS FOR METHODS OF PROPULSION (SAIL/PEDAL/MOTOR)
- SWAPPABLE AUTOMATED PAYLOAD (BOLT TO SPINE)
- BIKE LANE FRIENDLY
- EXPANDS TO A 4 MASTED TRIMARAN

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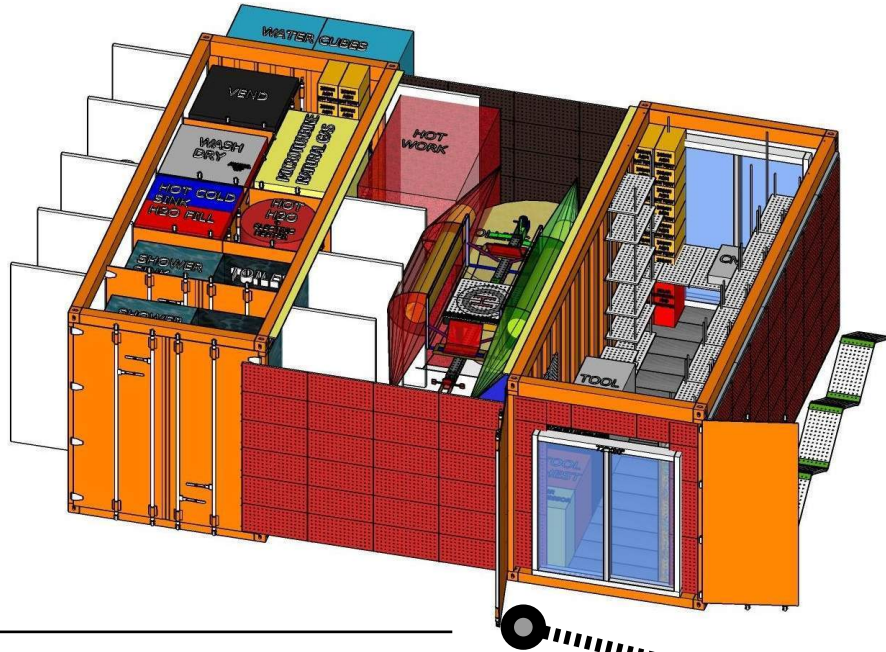


SEARCHING FOR LAND

DETAILS AROUND LOW-COST LIVE/WORK
BUILDING DESIGN/CONSTRUCTION

WHERE TO LIVE, WORK, AND PROVIDE ACCESS
TO BASIC MODERN NECESSITIES. DETAILS
AROUND LOW-COST LIVE/WORK BUILDING
DESIGN/CONSTRUCTION.

D.X. I GROW ALONE, AND WITHIN COMMUNITY,



OCCUPANCY: 1-2 PERSON

- THREE LEASED PARKING SPACES + TWO 20' SHIPPING CONTAINERS+ MCM PERFORATED PANEL FURNITURE, SKIN, CEILING + REGULAR DOORS, FIXTURES, EQUIPMENT & SKIN EQUALS

A LIVE/WORK SHOP & CENTRAL UTILITY PLANT FOR TWO PERMANENT OCCUPANTS WITH ADDITIONAL ACCESS BY THE PUBLIC.

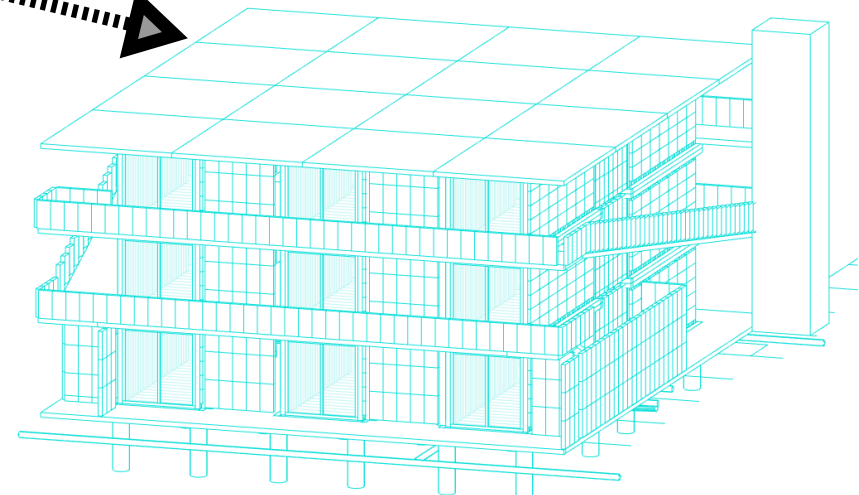
- RIGHT: WORKSHOP, OFFICE, STOREFRONT. CONDITIONED AND INSULATED
- CENTER: GARAGE VEHICLE STORAGE, HOT WORK, KITCHEN
- LEFT: UTILITY UNIT, ELECTRICITY PRODUCTION (SOLAR+MICROTURBINE), LAUNDRY WASHER AND DRYER, HOT/COLD WATER, SHOWER X2, TOILET X2, VENDING.

OCCUPANCY: 15-30 PERSON

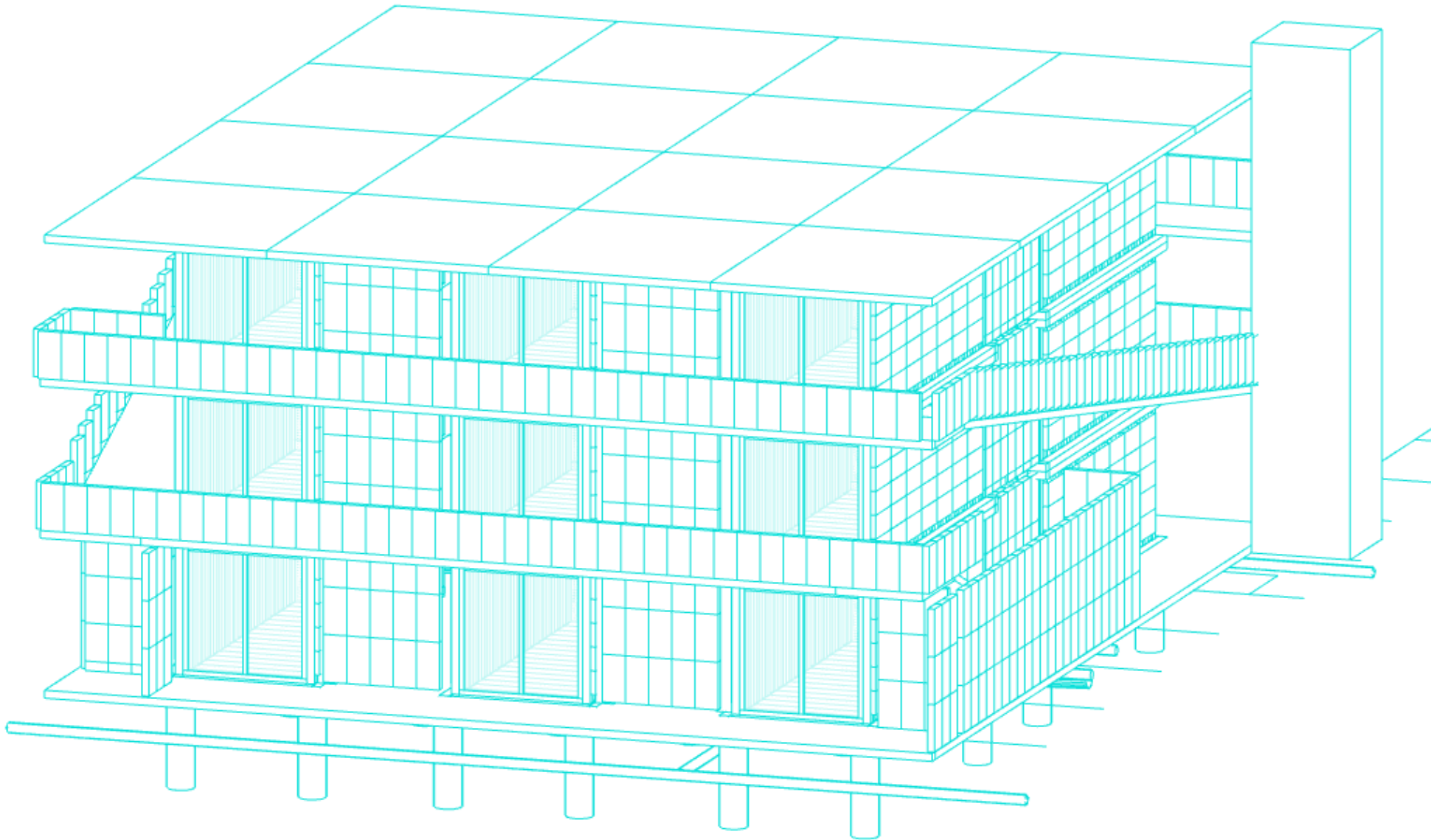
- FOURTEEN PARKING SPACES (LONG TERM LEASE OR OWN.)
- THREE OF THE LIVE/WORK BUILDINGS ABOVE.
- TWELVE ADDITIONAL 20' SHIPPING CONTAINERS (FROM ANY CITY, NATION, OR STATE IF UNFINISHED OR BUILT LIKE WORKSHOP ABOVE.)

ADD:

- EXTERIOR FINISH PANELS.
- FLOOR AND CEILING BEAMS/HOISTS.
- MODULAR ELEVATOR PACKAGE.
- UNDERGROUND UTILITIES.
- DOUBLE HELIX SEISMIC REINFORCING WALKWAY STRUCTURE.
- RAILINGS & FENCES.
- FOUNDATIONS.
- LANDSCAPE.
- SIMILAR DESIGN/PARTS FOR HIGHER OCCUPANCY.



D._._. I NETWORK, SOCIALIZE, AND DENSIFY.



DESIGN INTENT

SMALL FOOTPRINT

- 3 PARKING SPACES FOR LIVE/WORK.
- 600SF AND UP.
- DIRECT SALES AND SERVICES TO PUBLIC.

UTILITY DIVERSITY

- POWER: SOLAR, GAS MICROTURBINE, GRID.
- WATER: CITY, CUBE DELIVERY, AND BACKUP CATCHMENT (RETENTION POND W/ DRAIN.)
- CIRCULATION: TWO DOORS FOR EVERY ROOM.
 - EXTERIOR FASCIA: ANY EXTERIOR SKIN MATERIAL, ATTACHED WITH .5" WELDABLE BOLTS AND CRUSHABLE INSULATION PANELS BEHIND THE EXTERIOR AT 2"-3" THICKNESS.

MODULARITY

- RAPID OFF-SITE FABRICATION.
- RAPID ON-SITE ASSEMBLY.
- RAPID SQUARE FOOTAGE INCREASE, HORIZONTAL AND VERTICAL.
- INTEGRATION OF SYSTEMS AND PARTS: POWER, LIGHT, AIR, WATERPROOFING, STRUCTURE, MAINTENANCE.

SECURITY

- FIREPROOF, STEEL, AND ALUMINUM.
- EARTHQUAKE SAFE, BOLTED STRUCTURE.
- RIOT/THEFT PREPARED, STEEL EXTERIOR SKIN BEHIND FASCIA + GATES & SHUTTERS.
- INTERIOR FINISHES BY PREFERENCE, BARE STEEL OR BOLTED SHEETGOODS & PANELS. BARE STEEL FOR DURABILITY AND MAGNETISM.

LOW COST OF OWNERSHIP

- ELIMINATION OF DUPLICATE MATERIALS, MULTIPLE SIMULTANEOUS USES, AND ON-SITE INCOME GENERATION.
- UTILITY COSTS ARE COMPETITIVE WITH ON-SITE NIGHT+DAY ELECTRIC PRODUCTION.
- SIZED SMALL AND MODULAR FOR LAND AT ANY SIZE ~600 SF AND UP DELIVERED WITH 3 TOW TRUCKS.

CLEAN AND ORGANIZED

- ACCESSIBLE FLOORS, GARAGE FURNITURE CAN HANG FROM THE CEILING PANELS (DESKS, SHELVES, BENCHES, ETC) OR CLOSER TO INDIVIDUAL WELDED BOLTS & STRUCTURAL BEAMS IF HEAVIER.
- ACCESSIBLE STRUCTURAL BEAMS AT GARAGE AREA FOR: BOATS, RACKS, BIKES, MATERIAL, GANTRY CRANE, ETC.

AIRFLOW

- NATURAL VENTILATION, AT GARAGE BY FAN AND PERFORATION ACROSS THE CEILING, PERFORATIONS IN SLIDING GARAGE DOORS FOR NATURAL VENTILATION.

ELECTRICAL

- INTEGRATED LIGHTING ACROSS CEILING
- NO WIRING, DC POWER TRANSFER WITHIN MCM CEILING WITH ROOM IN MECHANICAL CHASE ABOVE CEILING TO ROUTE AC EXTENSION CORDS IN FROM INVERTER OR A HIGH WATTAGE NATURAL GAS MICROTURBINE.
- OPTION FOR DC POWERED EXTERIOR SKIN LIGHTING AND SIGNAGE.

INSULATED AND CLIMATE CONTROLLED

- 2" EXTERIOR INSULATION AT EXTERIOR WALLS AND CEILING OF LIVE/WORK ROOM.
- HEAT RECOVERY AND VENTILATION UNIT MANAGES TEMPERATURE + AIRFLOW.
- STANDARD SPLIT SYSTEM HVAC AIR CONDITIONING AND HEAT FOR LIVE/WORK OFFICE UNIT.

INCOME GENERATING SHARED UTILITIES

- SHOWER/TOILET.
- VENDING FOR PRODUCTS.
- VENDING FOR HOT AND COLD WATER.
- COMMERCIAL WASHER/DRYER.
- ELECTRICITY CHARGING, USB A AND C PLUGS.
- WIFI ACCESS.
- ON-SITE TRADE/CRAFT PRODUCTION.

LIVE/WORK

- 24 HOUR ACCESS.
- VACUUM LEVEL NOISE.
- LOW/MEDIUM/HIGH WEIGHT FABRICATION EQUIPMENT.
- SYMBIOTIC SMALL BUSINESSES.
- COLLABORATIVE PROJECT AREAS.

CODE ISSUES

ARCHITECTURAL

- NONE: 100% ADA COMPLIANT, FIRE RATED, EGRESS COMPLIANT.

MECHANICAL

- NONE: INSULATED, HEAT VENT RECOVERY AND SPLIT SYSTEM HVAC AT OFFICE AREA, NATURAL VENTILATION OF GARAGE AREA.

STRUCTURAL

- NONE: BEAM SIZING AND VERIFICATION OF CONNECTIONS REQUIRED. NO STRUCTURAL MODIFICATIONS WITHOUT ENGINEERING REVIEW

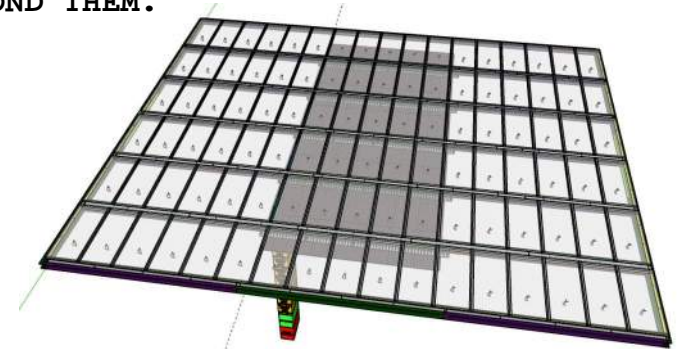
FIRE

- NONE: NON-COMBUSTIBLE, ADDITIONALLY SPRINKLERED AT UPPER CORNERS OF CONTAINERS (MIST SYSTEM), 2 MEANS OF EGRESS, EXITS IDENTIFIED ON MULLIONS.

ELECTRICAL

- MANY: OLD CODE IS HAMSTRINGING U.S.
- NO ALTERNATING CURRENT, AVOID WIRING.
- NO DEDICATED OUTLETS AT FLOOR LEVEL.
- 100% DC (OPTION FOR AC EXTENSION CORDS ROUTED ABOVE CEILING PANEL.)
- DC ELECTRICITY PROVIDED THROUGH PERFORATED METAL COMPOSITE METAL PANELS WITH NEUTRAL AT STRUCTURE AND POSITIVE CHARGE ON OPPOSITE FACE OF PANEL.
- DC CURRENT WILL NOT ELECTROCUTE EVEN WITH A HIGHER AMPERAGE RELATED TO A HIGH LOAD. 2,000 AMPS AT 12VOLTS FOR 600SF, TEST ON SELF.

THESE FEATURES FOR A MODULAR ISO CONTAINER BUILDING IN
3 PARKING SPACES, AND BEYOND THEM.



FEATURES

- STRUCTURAL METAL ROOF+CEILING+CHASE+DC NEUTRAL & CUSTOM LIGHT FIXTURES.
- 24KW EVERY 600SF + NATURAL GAS MICROTURBINE.
- DC ELECTRIFIED CEILING & CUSTOM FIXTURES.
- STANDARD CRUSHABLE ISO INSULATION AT EXTERIOR OF CONTAINERS.
- HVR, SPLIT SYSTEM HVAC VENTILATION, AND PLUMBING CONNECTIONS AT STANDARD DOOR PACK WITH WALL ASSEMBLY.
- WELDED BOLT EXTERIOR PANELS (ANY MATERIAL.)
- REMOVABLE PANELS (CEILING & EXTERIOR.)
- CONVERTIBLE INTO A LARGER BUILDING.
- DISASSEMBLE AND REASSEMBLE AT ANOTHER LOCATION AS NEEDED.

MORE INFORMATION IS AVAILABLE FROM:

SCOTT WIDMANN
300X3.COM
300X3@POSTEO.NET

NEED A ROOF OVERHEAD, NOT JUST A BED.

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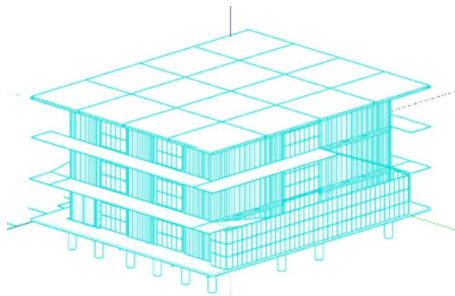
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NEED A ROOF OVERHEAD, NOT JUST A BED

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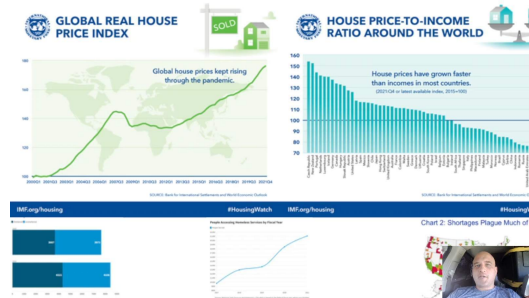
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SHEET NUMBER:
BUILDING DESIGN - DETAILED VIDEOS

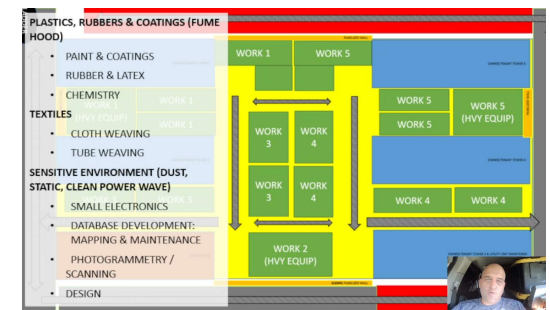
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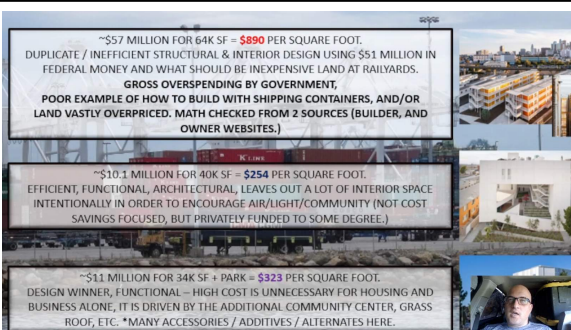
GRAND JUNCTION PART 1 LOW OVERHEAD, TOWARDS \$100 PER SF



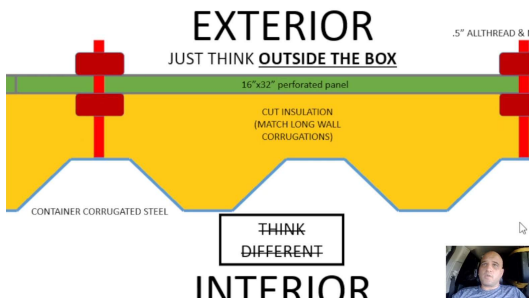
GRAND JUNCTION PART 4 WHY WE NEED THIS & THE RIGHT PEOPLE



GRAND JUNCTION PART 7 WHAT WE ARE GOOD AT & REFERENCES



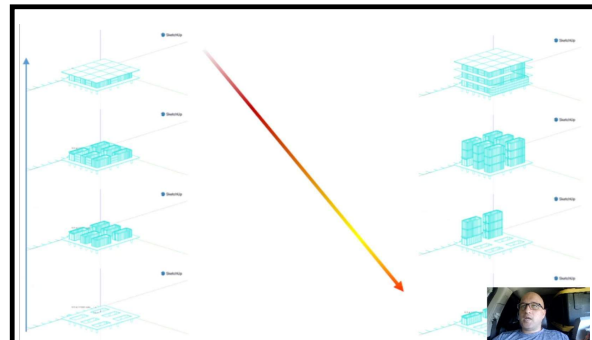
GRAND JUNCTION PART 2 EXPECTED FAILURES



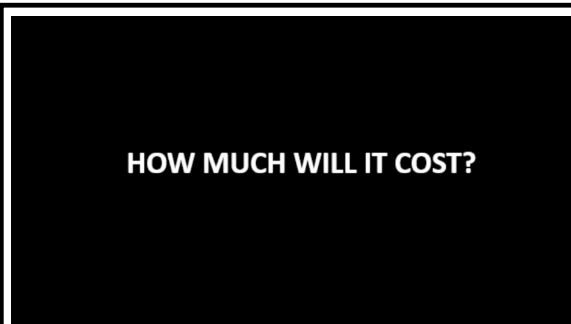
GRAND JUNCTION PART 5 WHAT MAKES THIS BUILDING DIFFERENT?



MICRO HOME - 160SF ALTERNATE DESIGN



GRAND JUNCTION PART 3 WHAT AND HOW LONG - SEQUENCING



GRAND JUNCTION PART 6 HOW MUCH IT WILL COST (OLD ESTIMATE, NEEDS REVISION)



MICRO HOME- 160 SF ALTERNATE DESIGN & HIGH RISE CONCEPT (TOO DENSE)

TYPE 1 OR TYPE 2 BUILDINGS. STEEL WITH CONCRETE DECK FILL AND SPRINKLERS FOR INDUSTRIAL USE.

OPTION TO FIREPROOF WITH PAINT AND TO SEAL INDIVIDUAL UNITS AS LABS, CLEANROOMS, OR FOR MEDICAL USE.



SKILLSETS AND PEOPLE

MORE BOATS & MORE BUILDINGS, INCREASING
LAND ACREAGE AND STRATIFYING WORK.

A LARGER BUILDING FOR MORE PEOPLE,
POTENTIAL FOR DEVELOPING FARMLAND WITH
INDEPENDENT OWNERSHIP, AND EVERYTHING
THAT GOES ALONG WITH THAT.

CULTURE

LOOKING FOR PEOPLE WHO:

- ARE WILLING TO WORK ON WHAT THEY LOVE (BY THEMSELVES) THEN SHARE THAT WORK AS A PART OF A LARGER PUZZLE, IDEALLY AT A COMMON LOCATION.
- ARE PURSUING THIS 300 MILE ROUTE OR SOMETHING SIMILAR, AND WHO WANT TO PURSUE THE DEVELOPMENT OF NEW BUILDINGS AND PRODUCTS.
- LIKE SHIPPING CONTAINER BUILDINGS.
 - ENJOY BUILDING FOR THE WATER.
 - ENJOY CYCLING & HUMAN PROPULSION.
- ENJOY ENGINEERING CAMPING EQUIPMENT AND THINGS THAT LEAD TOWARDS A NEW LIFE.
 - NEED TO DEVELOP LAND QUICKLY.
 - CARE ABOUT CHALLENGING EXISTING PERSONAL + SOCIAL STRUCTURES AND THEIR OWN BELIEFS ABOUT WHY THEY ARE BROKEN.
 - ENJOY FABRICATION OR HAVE A STRONG INTEREST IN IT.
- ARE BROKEN AND LOOKING FOR ANOTHER WAY OUT/UP THAT MOTIVATES THEM TO GET MOVING UNDER THEIR OWN POWER AND TO BUILD WEALTH OF THEIR OWN AGAIN. WITHOUT LIVING AS HERMITS.
- ARE STUCK IN THEIR HEADS, BUT STILL RECEPTIVE TO SOMETHING OUTSIDE OF THEM.
- WILL IDENTIFY THE MISSING PIECES AND THE DEVELOPMENT OF NEW STANDARDS THAT ENSURE THEY ALL FIT INTO SOMETHING ELSE.
- CARE ABOUT USING THE BEST MATERIAL FOR THE JOB AND REFERRING BACK TO A FOCUS ON VALUE & UTILITY.
- EXPECT TO HEAR THE TRUTH, ALONG WITH MAINTAINING RESPONSIBILITY FOR IT.
- DIRECT THEMSELVES UNTIL THEY HIT A POINT WHERE THEY NEED HELP.

NOTE: THESE ARE ALL THINGS CHRIST & THE TRINITY ALREADY DO AT A MUCH HIGHER LEVEL, I/WE ARE JUST DOING IT AMIDST THESE DETAILS AND A GUIDING HOLY SPIRIT.

BELIEVE IN A SHARED "DESIGN INTENT"

STEEL FOR STRUCTURE, ALUMINUM FOR STRUCTURAL BRACKETS, WOOD FOR INTERIOR FINISHES, SILK, MERINO WOOL & CANVAS FOR TEXTILE WORK, HEAVIER RUBBER/RUBBERIZED PLASTICS FOR BUMPERS AND COVERS, STANDARD GLASS PANES, STONE OPTIONS FOR EXTERIOR SKIN AND COUNTERTOPS.

OVERALL: COST EFFECTIVE MATERIALS WITHOUT REPLICATION OF PURPOSE WHILE MAINTAINING LONGEVITY - BEST MATERIAL FOR THE JOB = VALUE + UTILITY.

THERE ARE EXCEPTIONS TO EVERY RULE. EXAMPLE: ALUMINUM VS STEEL VS WEIGHT VS PRICE VS MOBILITY. CERTAIN MATERIALS ARE PREFERABLE, ESPECIALLY IN A SHOP ENVIRONMENT WITH SPECIFIC MACHINES AND AROUND FIRE/SLAG COMPARED TO ON A SHIP IN A WET ENVIRONMENT WITHOUT FIRE. KEEP MOST PLASTICS AWAY FROM FIRE. FINISHES SELECTED BY USERS: INTERIOR DESIGN AND EXTERIOR SKIN ARE NOT THE FOCUS OF THE DESIGNER. THOSE MUST BE CUSTOMIZABLE BY THE USER.

THE ENGINEERING RELATED TO THIS CHALLENGE IS INTENDED TO TRANSITION TO SOMETHING ELSE OVER TIME AND IS EXPECTED TO SUPPORT FABRICATION. CAR USE IS EXPECTED FOR MATERIAL PICKUP, TOW TRUCKS FOR 20' SHIPPING CONTAINER DELIVERY AND CONSTRUCTION EQUIPMENT. THIS HELPS TO SUPPORT A "WALKING CITY" WITHOUT LARGE EQUIPMENT TRAFFIC RELATED TO LONG CONSTRUCTION PERIODS. GENERALLY AN URBAN PLANNING IDEAL FOR CITIES -WALKABLE WITH INDUSTRIAL AND COMMERCIAL DELIVERY TRUCKS THAT DO NOT INTERRUPT THAT WALKING (VERY DIFFICULT, REQUIRES STREET RESTRUCTURING, NOT GOING TO GET THERE WITH EXISTING DEVELOPMENT TRENDS.)

AVOID WOOD AS A STRUCTURAL MATERIAL BECAUSE OF ITS WEIGHT, LOAD BEARING MAXIMUMS / FLEXING, COST, FINISHING REQUIREMENTS, AND PEST INFESTATION. HOWEVER, IT DOES WORK FOR LOW COST PROTOTYPING AND THESE SMALL PANELS. ENGINEERED LUMBER IS AN OPTION (ESSENTIALLY LARGE SCALE PLYWOOD), BUT LARGER BEAMS ARE READILY AVAILABLE - THEY STILL SUFFER FROM THE SAME ISSUES. OTHERWISE, OTHER MATERIALS SUPPORT MORE MODULARITY IN REGARDS TO STRUCTURAL ENGINEERING, ADAPTABILITY, AND RE-USE OVER DECADES AND CENTURIES. WHETHER AS INITIALLY BUILT, OR VIA MELTING AND REFORMING. HOWEVER, WOOD AND THE TOOLS RELATED TO IT ARE GENERALLY ACCESSIBLE. BUILD YOUR OWN HOME AND CRAFT FOR 300X3, OR COLLABORATE ON THIS EFFORT (?). YOUR CHOICE, I HOPE YOU MAKE THE DECISIONS THAT HELP ENSURE THAT HOME, COMMUNITY, AND NATION WILL LAST WHILE ENJOYING THE TIME YOU SPEND WITH OTHERS. ENMITY IS A REASON TO LIVE (IT IS OK TO BE ANGRY AT THINGS THAT YOU KNOW ARE WRONG), BUT IT SURE IS BETTER WHEN THAT ENMITY INCLUDES FUN AND IS BEARABLE AS LONG AS THAT ALIGNS WITH GOD'S WILL.

PART 3 OF THIS WEBSITE IS ENGINEERING, IT WAS ORIGINALLY KEPT SEPARATE BUT THE SCOPE OF THIS BOOK/SITE IS SO LARGE IT IS NOW FOCUSED MORE ON **SEEDING PRODUCT DEVELOPMENT THAT SUPPORTS INDUSTRY FOR THE CREATION OF CONSUMABLES IN SOME FORM.** OTHERWISE, FOCUS ON THE TERM "KAIZEN" AS A REBRANDING OF THE AMERICAN PROFESSION: INDUSTRIAL ENGINEER - THOSE WHO CREATE CONSUMABLES AND PRODUCTS THROUGH AN OPTIMIZED WORKFLOW. MAN'S BEST ATTEMPT AT STANDARDIZING HOW TO MAKE WIDGETS, FOR MEETING BASIC NEEDS WHILE INCREASING **QUALITY OF LIFE.**

INDEPENDENT BUSINESS UNITS FOR INDIVIDUAL OPERATION

LOOKING FOR SPECIALISTS (IN ADDITION TO THE FOLLOWING AREAS OF WORK) FOR SYMBIOTIC BUSINESS UNITS, THOSE WHO ARE DEDICATED TO THESE TOPICS AND THE RELATED: MATERIAL ACQUISITION, REPAIR, ASSEMBLY, SALES, ETC. INDIVIDUALS MUST SELL PRODUCTS DIRECT IN ADDITION TO COLLABORATING ON CONSTRUCTION OF BOATS AND CONTAINER BUILDINGS. PROVISION OF SERVICES RELATED TO INDIVIDUAL PRODUCTS

IS ALSO NECESSARY. INTENT:

RESPONSIBILITY FOR YOUR OWN BUSINESS, YOUR OWN MODULAR BUILDING/UNIT, AND POTENTIAL FOR A SHARED LOCATION. ENSURE OPERATION BY SELF IN CASE OTHER BUSINESS UNITS FAIL OR TRANSITION. OVERNIGHT ON-SITE OCCUPATION BY BUSINESS IS REQUIRED TO PREVENT SLUM LORDS AND ENSURE ACCOUNTABILITY.

NO INTERNET BASED SALES THROUGH 3RD PARTY RESELLERS OR DROP SHIPPERS AS IT HARMS SMALL BUSINESS AND THE PUBLIC.

UTILITIES

- ANNUAL OPTION TO REPLACE PROVIDER.
- COIN OPERATION WITH SUPPORT FOR E-CARD.

CLEANING

- BY INDIVIDUAL OPERATORS.
- NO OUTSOURCING ALLOWED.
- ALL MATERIAL MUST BE BINNED AND COVERED, NO EXPOSED STORAGE.

WATER & WASTE

- COLD POTABLE.
- HOT POTABLE.
- SHOWER POTABLE.
- WASTE REMOVAL, SOLID AND LIQUID
- PROVIDES CLEANING AND MAINTENANCE OF ALL PAID USE FIXTURES AND ALL AREAS OF SURROUNDING ROOM.

ELECTRICITY

- TURBINE MAINTENANCE.
- SOLAR PANEL WASHING BY HAND & PULL ROPE SQUEEGEE "ROBOT."
- NATURAL GAS + PROPANE RECEIVING, ON-SITE METHANE CATCHMENT, ETC.

TRASH & RECYCLING

- DISPOSAL OFF-SITE (STANDARD OPTIONS.)
- ON-SITE: CUT > WASH > STORE > RESALE.

INTERNET

- MESH NETWORK SETUP.
- FLAGPOLE ANTENNAES (MANY & MESH NET)
- ON DEVICE MESH SOFTWARE/HARDWARE

COMMERCIAL LAUNDRY

- MAINTENANCE & REPAIR.

VENDING MACHINES

- UNIQUE OBJECT SIZES.
- LOCATION IDENTIFICATION & SETUP.
- STOCKING.

SERVICES

SCHEMATIC 3D DESIGN

- MODULAR: BOAT, BUILDING, VENDING, WEARABLE COMPUTING, SMALL APPLIANCES, LARGE APPLIANCES.
- HANDOFF TO THE IN-HOUSE FABRICATION SPECIALISTS.

ACCOUNTS RECEIVABLE AND TAXES

- UNPAID INVOICES.
- MATERIAL RECEIVING AND QUALITY ISSUES.

PDF SPECIALIST

- FORM CREATION.
- DATA INPUT & OUTPUT.
- 2D & 3D CONTENT INTEGRATION (INSTRUCTIONS, TEACHING, AND TRAINING.)
- INTERNET PRESENCE.

COMPUTER SOFTWARE

- STANDARD ARM OPERATING SYSTEMS (LINUX, WINDOWS, PI, APPLE, OR 3RD PARTY.)
- MOTOR CONTROLS.
- AUTOPILOT.

PACKAGES

- SIZE: SMALL UP TO PALLETS & 20' STICKS/HULLS.
(MAX LENGTH: 20' CONTAINER.)
- RECEIPT & DELIVERY.
- LOCAL HAND CARRY OPTION.

FABRICATION

GRAPHICS

- PAINT.
- VINYL.
- PRINT.

CANNING

- ALUMINUM.
- 12 OZ ONLY, 4" X 2.5."
- PACKAGING FOR: WATER, ALGAE, WINE, BEER, AND ELECTRONICS PRODUCTS.

METAL CUTTING & WELDING

- BAND SAW.
- WELDER.
- STANDING DRILL PRESS.
- 3D PRINTING (PLASTIC & WAX)
- DEVELOPMENT, TESTING, CASTING - FILAMENT ONLY.
- CNC ROUTING (METAL)
- 2IN TO 3IN THICK ALUMINUM.
- STANDARD ROUTER BITS.
- MINOR Y AXIS ROUTING & UNDERCUTS WITH FIXED POSITION MATERIAL.

SHEETMETAL

- PERFORATION.
- FORMING.

SAND CASTING (METAL)

- SMALL PARTS.
- APPROXIMATELY 12"X12"X12."
- PUMPS AND MOTOR HOUSINGS.

HYDRAULIC PRESS

- MEDIUM DUTY UP TO 40"X40."

PLASTER MOULDS

- CASTING EXISTING PARTS.

PANEL CUTTING

- WOOD, PLASTIC, CEMENTITIOUS.

COMPUTER HARDWARE

- PERSONAL COMPUTER.
- ARM ARCHITECTURE, CREDIT CARD SIZE.
- PHYSICAL CONTROLS: BUTTONS, ETC.
- SMALL CASES FOR WEARABLES - 12OZ CAN.

COPPER WINDINGS

- ELECTROMAGNETS.
- ELECTRIC MOTORS.

MAGNETS

- POLARIZING.
- STATIC MAGNET FORMING.
- ELECTRONIC TINTING.
- OPAQUE, CLEAR, TRANSLUCENT.

SILK HARVESTING

- LOCAL SPIDERS.
- WATERBOTTLE CAGES.

WEAVING

- CLOTH.
- TUBE.

- TEXTILE & CONDUCTIVE STRANDS.

ALGAE ENGINEERING & GROWING

- FOOD.
- FUEL.
- CONCRETE.

- WATERBOTTLE GROWERS.

FIBERGLASS & RESIN

- SEALED HULL MANUFACTURING.
- PLASTIC INJECTION MOLDING.

HYDRAULICS

- PISTON ARMS.
- JOINTS.

PNEUMATICS

- LOW DEPTH SUBMERSION RAPID ASCENSION.

RUBBER

- SHEETS.
- DIPPING.
- RINGS.
- TIRES.

NEON

- GLASS TUBE BENDING.
- GAS FILL.

LOCKS AND READERS

- COMBINATION LOCKS.
- ELECTRONIC LOCKS, ARM HARDWARE.
- ELECTRONIC LOCK MANAGEMENT.
- DUAL DOOR OPERATION (1 COMBO + 1 CARD), BUILDING AND LOCKERS.

SOLAR

- CELL AND PANEL, MAKE OR PURCHASE.
- BOTTLED CAPACITORS & BATTERIES.

WOODWORK

- HAND TOOLS.

INDUSTRIAL

GLAZING

- PANES.
- TUBES.

STRUCTURAL METAL CASTING

- ALUMINUM.
- STEEL.

OFF-SITE FISHING

- NEAR SHORE AQUACULTURE.
- MOLLUSKS & TRAPPING.

DREDGING

- CANAL.

- ESTUARY CLEANUP.

- NEAR SHORE SMALL ISLAND & REEF.

LEACH MINING

- SALT.
- LITHIUM.

- ADDITIONAL METALS/MINERAL.

REALITY CAPTURE

- POINT CLOUDS, COLORED LIDAR ONLY.
- NO SONAR AND PHOTOGRAMMETRY, NEED BETTER MEASUREMENTS AT LOWER COST.

REQUIRED FOR ALL

- SMALL VEHICLE REPAIR.
- NO CENTRAL BIKE/SKATE SHOP, MAINTAIN YOUR OWN: BICYCLE, SKATEBOARD, GOKART, SCOOTER, ETC. NO DEDICATED ON-SITE PARKING EXCEPT PACKAGES. KEEP IT IN-UNIT.

COOKING

- BY INDIVIDUALS. NO SHARED COOKING RESPONSIBILITIES BETWEEN BUSINESSES. NO RESTAURANTS. NO FOOD DELIVERY SERVICES INTO OR OUT OF BUILDING. VENDING ONLY.

ASSEMBLY

- BY INDIVIDUALS.
- INSTALL YOUR OWN INDIVIDUAL PARTS AND ENSURE THEY OPERATE BY COORDINATING DIRECTLY WITH THE RELATED PART & PERSON AS A LEAN QUALITY CONTROL METHOD.
- SCHEDULE TIME FOR ASSEMBLY AT SPECIFIC LOCATIONS IN BUILDING.

COORDINATION

- 4D INSTRUCTIONS FROM 3D MODELS WITH PAPER PRINTOUTS. COORDINATION OF ASSEMBLY AND MAINTENANCE. SEQUENCING TAGS IN DESIGN DOCUMENTS/MODELS.

BY GOVERNMENT:

- PROVISION OF UTILITIES, TRANSPORTATION ARTERIES, AND CONSTITUTIONAL RIGHTS.

REGULATION REVISIONS

- BY OTHERS, THEY MADE THEM, THEY REVISE THEM. WE EXPECT THEM TO.

PROTECTION OF PROPERTY

- BY POLICE WITH CONSIDERATION FOR SECURITY BY SELF (STEEL, SHUTTERS, LIGHTS, GATE, LOCKED ACCESS + CARDS, NEIGHBORHOOD WATCH, CAMERAS.)

FOR MORE INFORMATION

300X3.COM - PLEASE EMAIL ME. THIS IS GENERALLY HOW A BOAT YARD, OR A CO-OP (FARM, FLEA-MARKET, STRIP-MALL, ETC.) FUNCTIONS. HOWEVER - WITH MORE OF A CORPORATE FOCUS AROUND A PRODUCT, A SHARED COHESIVE SET OF VALUES/BELIEFS, INDEPENDENT BUILDING OWNERSHIP, THE OPPORTUNITY TO EXPAND AS WELL AS MOVE OFF-SITE, IN ADDITION TO INDEPENDENT SALES. WHY? SIMILAR TO GOOGLE/TECH VALUES (PROGRESSIVE) WITH A CONSERVATIVE VALUE SET AT A RAPID PACE, WHILE **LOCAL**.

THE FARM

3 PARKING SPACES TO START, THEN ACRES OF FARMLAND, AND BACK TO 3 PARKING SPACES.

MANY FARMS HAVE THESE 20' ISO CONTAINER BUILDINGS AS DUDE RANCHES FOR MIGRANT WORKERS / COWBOYS OR EQUIPMENT. MIGHT AS WELL USE THEM AS THE MAIN BUILDING AS WELL. ESPECIALLY SINCE THEY HAVE THE ABILITY TO BUILD UP. ANY INDUSTRIALIZED FARM BENEFITS FROM THIS CONSTRUCTION METHOD - HOWEVER, IT'S NOT PRETTY, IT'S NOT A BEAUTIFUL KITCHEN, IT'S NOT AS NICE AS MANY COMMUNIST CHINA/RUSSIA STATE PROVIDED HOMES. HOWEVER - IT IS OWNED, IT IS AN OPPORTUNITY TO BUILD WEALTH, IT IS NOT INDENTURED SERVITUDE, AND IT IS REQUIRED FOR THIS ERA. ANY PARENT PRACTICING OTHERWISE IS TRYING TO STAB THEIR NEIGHBOR IN THE BACK WITHOUT ADMITTING THAT THE PURSUIT OF LUXURY HOUSING IS DETRIMENTAL TO THE ENTIRE NATION OVER TIME - ESPECIALLY THEIR CHILDREN WHO WILL NOT BE ABLE TO EXIST IN THE ECONOMY THAT RESULTS FROM THOSE LUXURIES BECAUSE THEY WILL EITHER INCREASE A WEALTH GAP, OR DECREASE OVERALL QUALITY OF LIFE. THE ONLY OPTION - IS SMALLER TO START, AND INDEPENDENT OWNERSHIP WITH THE ABILITY TO GROW AND MOVE OVER TIME WHILE MAINTAINING A SOLID MARGIN OF QUALITY.

WHY? CITY, BUSINESS, AND PERSONAL NEEDS CHANGE OVER TIME. POPULATION DENSITIES CHANGE, FAMILIES ARE CREATED, PEOPLE RETIRE OR CHANGE PROFESSIONS, RESOURCE AVAILABILITY SHIFTS, LIFE HAPPENS. REGARDLESS - FARMING TYPICALLY TAKES A BIT OF LAND (OR A HIGHLY CONCENTRATED HYDROPONICS CONTAINER.) START WITH 3 PARKING SPACES; SMALL, ACCESSIBLE, AND MOST IMPORTANTLY FOR ZONING/CITIES-

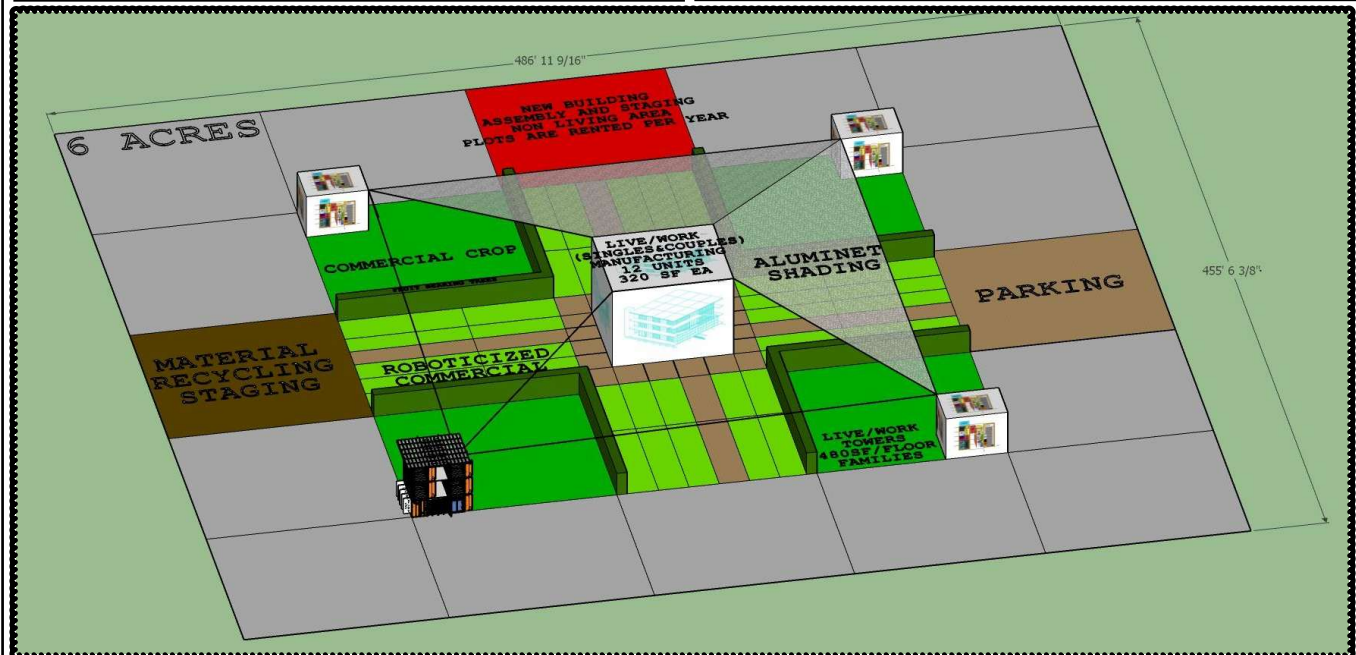
THIS ADDRESSES URBAN BLIGHT AND LOW PROPERTY TAX AREAS WHILE MEETING THE NEEDS OF INDIVIDUALS AS WELL AS THE POPULATION. THE MAIN PROBLEM WITH THE FARM: LOW INCOMING HOUSING PROJECTS HAVE A STRONG HISTORY OF IMPLOSION. THEY ARE OFTEN VERY DENSE, THE SOCIAL PROBLEMS WITHIN THEM GROW EXPONENTIALLY, AND EVENTUALLY - BUILDINGS END UP BEING DESTROYED. SAME FOR HIGH DENSITY PRIVATE SLUM-LORD PROJECTS.

THE PROBLEM IS STILL DENSITY, ESPECIALLY WHEN IT IS SET WITHIN URBAN BLIGHT OR "I'M SORRY YOUR BUSINESS DIDN'T WORK OUT, IT'S NOT THE FAULT OF REAL ESTATE OR ZONING LAW - IT'S YOURS..." MADE WORSE BY A LACK OF OWNERSHIP, MADE IMPOSSIBLE BY FALSE CONCEPTS OF "ENVIRONMENTAL DETERMINISM" AN INELASTIC BUILT ENVIRONMENT FORCING FALSE SOLUTIONS BY BAD CITY PLANNERS.

HOW TO AGGREGATE MANY BUILDINGS ON 3 PARKING SPACES INTO A STANDARD SUBDIVISION WITHOUT HIGH DENSITY.

*GOAL: STILL 3 PARKING SPACES TO START - DON'T JUMP AHEAD OR YOU WILL BE KILLING "LADIES" AND "GENTLEMEN": THOSE OF INDEPENDENT MEANS AS YOU WILL ESTABLISH A SOCIALIST / COMMUNIST STRUCTURE, OR A COMPANY THAT IS DYEING FROM ITS INCEPTION. START SMALL.

POSSIBLE? YES, AND RELATIVELY EASY WITH A MODULAR DESIGN. THIS COULD BE BUILT IN A MONTH WITH CONTAINERS AND CONCRETE ALONE, AND IT WOULD BE BETTER THAN ANY NUMBER OF OTHER HIGHER COST PROJECTS. RECOMMENDED? NOT UNLESS WITHIN AN AREA THAT REQUIRES IT FOR SAFETY/ SURVIVAL/ CAPITALIST COMPETITIVE ADVANTAGE; WHICH WE ARE APPROACHING / WITHIN DEPENDING ON WHICH CITY BLOCK YOU LOOK AT.



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SHEET NUMBER:
"THE FARM" - PUSHING FURTHER OUT

CREATED ON: 2023.08.15
LAST UPDATED: Tue, 2024/Jun/25 16:05

RULES OF "THE FARM"

- 100 YEAR LEASE OF LAND RIGHTS
(REQUIRED TO MAINTAIN A FUNCTIONING SET
OF H.O.A. STYLE RULES.)
- 2 PERMANENT RESIDENTS PER 160SF BOX
 - NO SUBLEASING.
 - NO DOMESTIC ANIMALS.
 - NO CHANGES TO BUILDING STRUCTURE.
- NO CHANGES TO AIR/ WATER/ ELECTRICITY/
WASTE FLOW INTO OR OUT OF THE UNIT
WITHOUT PRIOR APPROVAL.
 - NUISANCE = FINE.
- WHEN FINES REMAIN UNPAID, LAND/UNIT IS
REPOSESSED EARLY AND A REPLACEMENT UNIT
IS PROVIDED AT AN OFFSITE LOCATION,
STRIPPED TO A BARE 20' SHIPPING
CONTAINER IF NUISANCE FINES EXCEED THE
VALUE OF ANY IMPROVEMENTS.
- CHILDREN ARE NOT ALLOWED IN MAIN AREA,
AN OFFSITE UNIT OR ONE OF THE CORNER
UNITS IS AN OPTION. EVICTION NOTICE WITH
1 MONTH LEAD TIME IS GIVEN IF ANY
UNACCOMPANIED CHILDREN ARE PRESENT IN
THE CENTER FABRICATION BUILDING.
 - NO SHARED KITCHEN.
 - SHARED BATHROOM.
 - SHARED LAUNDRY.
- 24 HOUR COMMON AREA LIGHTS ALWAYS.
6AM TO 10PM HIGHER DECIBEL NOISE.
- 10PM TO 6AM QUIET HOURS.

- INDEPENDENTLY HELD GARDENS OR "FARMS."
 - 30% SHADING MAINTAINED OVER AREAS
BETWEEN CENTER AND CORNERS FOR GARDEN
WITH "ALUMINET" FOR SUN RESISTANCE (HIGH
ULTRAVIOLET DEGRADATION RESISTANCE.)
 - SHARED PARKING LOT, NO ON-SITE CARS.
 - SEPARATE LOCATIONS FOR RECYCLING AND
MODULAR CONSTRUCTION OF NEW UNITS.
 - PARKING LOT SOLAR AWNINGS.
 - DEDICATED COMPOSTING CONTAINER
(CLOSED DOOR WITH AIR FILTER.)
- NO-ONE UNDER THE AGE OF 18 WITHOUT AN
ACCOMPANYING ADULT, HEAVY MACHINERY.
 - NO SMOKING, FLAMMABILITY HAZARD &
CLOSE QUARTERS.
 - NO INTOXICATION, HEAVY MACHINERY.
SPEND THE NIGHT SOMEWHERE ELSE.
 - TRASH PICKUP AT RECYCLING AREA, NO
CHUTES, NO TRASHCANS IN COMMON AREAS, NO
COMINGLED RECYCLING, USE IT OR WALK IT
OUT AND SORT IT.
- NO STORAGE IN WALKING AREAS (EGRESS.)
- FINANCING: MORTGAGE, OR PAID IN FULL
(STRAIGHT CONSTRUCTION + LAND COST +
BUFFER FOR ISSUES: SHIPPING, STORAGE,
MANAGEMENT.)

VIOLATION

= FINE FOLLOWED BY EARLY LAND LEASE
TERMINATION, 1 MONTH NOTICE, POSSESSIONS
REMOVED AND PLACED IN 1 MONTH OF PREPAID
STORAGE (20' MOVING ON-SITE CONTAINER.)

VALUE OF REPLACEMENT UNIT = PURCHASE
PRICE MINUS NON-STANDARD DEPRECIATION
SCHEDULE. 2 CONTAINER REPLACEMENT UNIT
AND ROOFING ASSEMBLY MADE AVAILABLE FOR
1 YEAR INCLUDING DELIVERY TO AN
ALTERNATE LOCATION DEPENDING ON
DEPRECIATION CALCULATED AT TERMINATION.
STANDARD DELIVERY IS TO LAND AT BUREAU
OF LAND MANAGEMENT. EARLY MOVE-OUT OK
AFTER 5 YEARS = OPPORTUNITY FOR TWO
INDEPENDENT UNITS AND A ROOFING ASSEMBLY
(EQUIVALENT COST TO PURCHASE PRICE MINUS
NON-STANDARD DEPRECIATION.)

OWNERSHIP METHOD

YES, THERE'S A BOSS AT "THE FARM." LAND
IS LEASED HERE FOR 100 YEARS. HOWEVER -
UNLIKE FOREST SERVICE LAND (SIMILAR
CONTRACT), THE SMALLER CORNER BUILDINGS
CAN BE REMOVED BY THE OCCUPANT(S) IF
THEY PREFER LAND ELSEWHERE - HERE, THE
"LEASE" GOES BOTH WAYS. THIS
FACILITATES CONSTANT GROWTH AND
EXPANSION (BOTH VERTICALLY AND AT OTHER
LOCATIONS.) ALSO "THE BOSS" DOESN'T HAVE
A PENTHOUSE - JUST A CORNER FAMILY UNIT
AT MOST; WHICH HE CAN ALSO SELL (SAME AS
ANYONE ELSE.) THE CONCEPT IS MORE
SIMILAR TO A CONDOMINIUM COMPLEX ON
LEASED LAND RATHER THAN A CO-OP, OR RV
PARK, OR CABIN. HOWEVER - THERE ARE NO
SHARED WALLS. EVEN THE CENTER BUILDING
COULD BE DISASSEMBLED, ALTHOUGH DOING SO
WOULD INTERRUPT THE CIRCULATION AROUND
THE EXTERIOR AND WOULD SHUTDOWN THE
BUILDING FOR A MONTH +/- TO ALLOW FOR
RECONFIGURATION.

**IN SHORT: THIS REAL ESTATE OWNERSHIP
METHOD DOES NOT EXIST YET, AND IT ALLOWS
FOR AN APPRECIATING ASSET, LOW TO MEDIUM
DENSITY, HIGH QUALITY CONSTRUCTION, WITH
PRIVATE OWNERSHIP + MOBILITY.**

PRESSURIZING VESSELS

V2.09 90% DESIGN
V1 BUILT

I'M BUILDING A BOAT

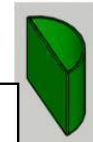
V1 BUILT

V1 SCRAPPED
V2 BUILT IN R&D LAB
WITH 10 OTHERS.

CANNING COMPUTERS AND APPLIANCES

TOUCH CONTROLS &
TRAY

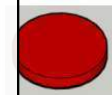
SPEAKER BOX



RADIO CONTROLS
COLUMN POCKET



IC GENERATOR -
AXIAL



LOGIC BOARD /
COMPUTER



OTOR CONTROLS



LOOKING FOR PROPERTY & PEOPLE:

IF YOU ARE NOT INTERESTED IN WORKING ON THIS EFFORT COLLABORATIVELY, PLEASE GO AWAY.
THOSE WHO ARE, DO NOT QUIT HALF WAY THROUGH; THIS IS NOT A HOTEL.

- 91941, OR 91942 ZIP CODES (AS WELL AS OTHER LOCATIONS FOR INDEPENDENT OWNERSHIP)
- 3 PARKING SPACES (160 SF EACH)
- ~600 SF EQUIVALENT
- BUILDING: 2 SHIPPING CONTAINERS AND A SOLAR PANEL ROOF IN BETWEEN
- LIVE/WORK USE
- 24 HOUR ACCESS
- FOR CONSTRUCTION OF: "A BOAT," AUTOMATED SUBMERSIBLE CATAMARAN KITS AND RELATED PARTS (DETAILS BELOW AND ON 300X3.COM)
- DIRECT SUN FOR SOLAR PANELS
- BASIC SHOP NOISE, AT THE LEVEL OF A LARGE VACUUM
- DIRECT STREET ACCESS
- STANDARD UTILITY ACCESS INCLUDING TRASH REMOVAL
- NO PETS UNLESS 100% CAGED, SEALED, AND FOR PRODUCTION OF PRODUCT (NO DOGS, NO CATS)
- NO PARTIES
- NO DRUGS
- NO ALCOHOL
- NO DATING
- NO SEX WORK, NO POLYGAMY, NO POLYAMORY
- ANY PROPERTY OWNER: CITY PROPERTY, COUNTY PROPERTY, FEDERAL PROPERTY, OR PRIVATE PROPERTY AS LONG AS AVAILABLE FOR SALE OR LEASE UP TO 100 YEARS.

PEOPLE - SMALL BUSINESS ORIENTED & SHARED FAITH

PROPERTY - FOR SALE, OR FOR LEASE

SCOTT WIDMANN
300X3.COM
300X3@POSTEO.NET

V2.04 40% DESIGN

V1 BUILT - PLYWOOD (NO DC)

V3.03 30% DESIGN

PERFORATING PANELS INTO KITS

LOOKING FOR LAND

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SHEET NUMBER:
LOOKING FOR 3 PARKING SPACES

CREATED ON: 2023.08.15
LAST UPDATED: Tue, 2024/Jun/25 16:05

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SHEET NUMBER:
INTRODUCTION TO A GOAL

CREATED ON: 2023.08.15
LAST UPDATED: Tue, 2024/Jun/25 16:06

INTRODUCTION TO A GOAL

300x3

300 MILES IN 3 DAYS BY 3 WAYS.

"The stone that the builders rejected
has become the cornerstone."

PSALM 118:22

+ISAIAH 28:16

+ZACCHARIAH 10:4

+MATTHEW 21:42

+MARK 12:10

+LUKE 20:17

+ACTS 4:11

+EPHESIANS 2:20

+PETER 2:7

ALSO, KEYWORDS: GRAPES, WINEPRESS,
GREENBEANS, WHEAT, RUBBER, EDIBLE WEEDS

> APPLES, POMEGRANATES, METAL, OIL

(ORANGES, LIMES, AVOCADO = TOO MUCH H2O
AND LIVESTOCK IS LOUD / STINKY.)

300X3 MAP DEVELOPMENT SPECIFICATION

GOAL

AN UPDATED MAP THAT DISPLAYS THE LOCATION OF STREET RESOURCES, CURRENT GROUND CONDITIONS, UNDERWATER TOPOGRAPHY, SEA-LIFE, BOAT LAUNCH, AND SLEEPING LOCATIONS. FACILITATING LIVE/WORK BUILDINGS, A BOAT AND ITS PARTS IN ORDER TO DEDICATE MORE TIME TO FAITH.

CONTENTS

LIVE/ WORK SHIPPING CONTAINER UNITS AND TRELLIS'D VENDING MACHINES THAT ARE SECURE, SCALABLE, AND ON OR OFF-GRID. A 300 MILE, 3 DAY ROUTE AROUND THE PERIMETER OF SAN DIEGO AND ITS USERS. INTENDED TO CONNECT MULTIPLE BASE CAMPS OVER TIME WHILE PROMOTING A PHYSICAL CHALLENGE AND THOSE WHO CHOOSE TO SPEND TIME WORKING TOGETHER IN RELATION TO THIS CHALLENGE, THESE BUILDINGS, AND RELATED PRODUCTS MADE AT THEM. ADDITIONAL 100 AND 200 MILE ROUTES AS APPROPRIATE (THROUGH DEL DIOS TO VOLCAN MOUNTAIN FOR EXAMPLE). EXISTING RESOURCES THAT ARE LARGELY PAID FOR THROUGH TAXES AND ARE EXPECTED TO REMAIN FREE OR TO DISSAPPEAR.

ALTERNATES TO EXISTING RESOURCES

SDFOODBANK, ECASSIST.ORG RESOURCES, HOSPITAL, SALVATION ARMY, US FOREST SERVICE, LIBRARIES, YMCA, LUTHERAN STUDY BIBLE.

PRIMARY USE

TRANSITION FROM GOVERNMENT RESOURCES TO SMALL BUSINESS WORK ALONG THIS PATH.



SECONDARY USE

MAPPING OF RESOURCES ALONG THIS ROUTE AND AROUND EACH OF THE BUILDING LOCATIONS - BY COLORED UP LIDAR LIST OF SERVICES AND DATES OF OPERATION ON BACK ALONG WITH LAST UPDATED DATE FOR EACH, AND EMAIL ADDRESSES FOR EACH ORGANIZATION. NO PHONE NUMBERS *TOO EXPENSIVE AND ABUSED REGULARLY WHILE REQUIRING A LARGER GROUP OF RESPONDERS. EMAIL IS A FREE ALWAYS-ON ADDRESS, PHONES REQUIRE MATCHING SCHEDULES / COVERAGE / BATTERIES / PERSONAL ACCESSIBILITY AT TIMES WHEN YOU ARE MORE PRODUCTIVE WORKING ON SOMETHING ELSE

-USE EMAIL.

DIRECTIONS

ROUTE BETWEEN MULTIPLE POINTS BY FOOT, BIKE, GOKART, OR BOAT IN ORDER TO ALLOW FOR A WALK-ABLE ROUTE. CONTACT US: 1 WEEK DELAY FROM SUBMISSION OF A "CONTACT US FORM" AND A RESPONSE TO A REQUEST. CHANGES INCORPORATED DURING THE WEEK AND RELEASED SUNDAY AT MIDNIGHT.

TECHNICAL FEATURES

PDF IN LIEU OF AN INTERNET BASED TILING VISUALIZER IN ORDER TO SUPPORT OFFLINE VIEWING, EASE OF PRINTING, MANAGEABLE FILE SIZES, AND A SIMPLER FILE FORMAT. THE ABILITY TO PINCH AND ZOOM IS NOT NEEDED, GO BACK TO THE THOMAS GUIDE FORMAT AND START WITH A GRID. WE DO NOT LOOK AT HUGE MAPS FOR REAL WORLD USES, THE PINCH/ZOOM METHOD IS FOR SEROTONIN BASED ENTERTAINMENT.

THE PREFERENCE IS FOR SOMETHING THAT IS MEASURABLE AND READILY AVAILABLE VIA PHOTOGRAMMETRY (PHOTOS MADE INTO 2D & 3D MAPS) +LIDAR. THIS REQUIRES HEAVY PROCESSING AND TAKES A LONG TIME (SPECIALIZED GPU CHIPS, LARGER COMPUTERS, OR SERVERS.) LOW COUNT POINT CLOUDS WITH A MESH ON/OFF BUTTON THROUGH A 3D PDF FILE FORMAT IS THE GOAL. INCLUDE PDF LAYERS FOR: FOOD, WATER, WIFI, SHELTER, TEACHING, EMERGENCY MEDICAL, ETC. ENABLE/DISABLE LAYERS BEFORE PRINT. LAT/LON LISTED ALONG MAP X&Y AXIS REPORT OF MAP AND HIGHLIGHTED LOCATION ADDRESSES ALONGSIDE DATES AND TIMES AVAILABLE. THESE MAPS SHOW "GROUND TRUTH" - NOT OLD SATELLITE IMAGES.

PRINTOUTS

- MATCH THIS 8.5X11 LAYOUT
- 8.5X11 FULL SIZE FRONT & BACK PRINT WITH MINIMAL MARGINS. STANDARD TITLE BLOCK, SHOWING DATE OF RESOURCES.
- 8.5X11 THOMAS GUIDE LEVEL OF DETAIL AND MASTER SHEET FOR 2D WITH STANDARD PDF ZOOMS AT _____ RESOLUTION DEPENDING ON OVERALL FILE SIZE COMPARED TO CLARITY FOR A GIVEN AREA. NO MAP TILING.
- MAP FRONT, DIRECTIONS & TIME AT BACK.

AREA 51 RIM DRIVEN VEHICLE CO-OPETITION

<u>PART 1</u>	<u>PART 2</u>	<u>PART 3</u>	<u>PART 4</u>	<u>PART 5</u>	<u>PART 7</u>	<u>PART 8</u>
DISCUSSION ABOUT PROPULSION METHODS & DESIGN CHALLENGES, BRAIN SPONGING & PHOTO SWAP	PARKING LOT RUN - HATBOX SIZE VEHICLES. APPROXIMATELY 12"X12"X12"	PARKING LOT RUN - HUMAN SIZED & HUMAN POWERED	PARKING LOT RUN - HUMAN SIZED, ELECTRIC & COMBUSTION POWERED	PARKING LOT COMBO RUN - HUMANS + HATBOXES (ANY PROPULSION METHOD)	300 MILER	DO IT AGAIN, MAKING WIDGETS (THE FIRST TEN ARE FREE)

A COOPETITION IS SIMILAR TO A COMPETITION, BUT WITH: OPEN BOOKS, PRICING, DISCUSSION, AND DESIGNS. THE INTENT IS TO BUILD TEAM MEMBERS AND INDIVIDUAL SKILLS WHILE PUSHING FORWARD WORKABLE DESIGN INFORMATION AND NECESSARY SOCIAL CHANGE. NOT A SOCIAL AGENDA, BUT RATHER "WHAT WILL LAST AS WE REFINE WHAT IS IN THE CRUCIBLE?" THIS IS A PERSONAL CHALLENGE: MENTALLY, PHYSICALLY, AND HUMANITARIANLY.

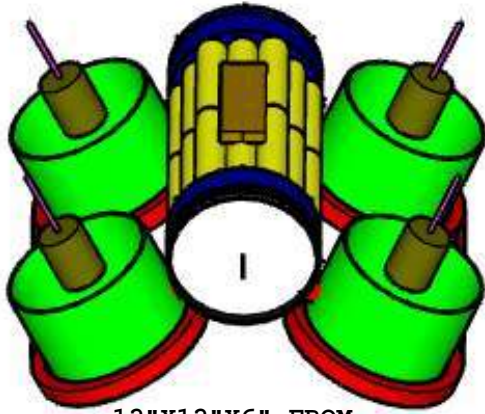
CONCEPT FOR A SOAP BOX DERBY RACER STYLE TOY - SPECIFICATION LEADING TO A FULL-SIZE VEHICLE

- PRICE: UNDER \$200, AND SMALLER THAN 12"x12"X12", AT HUMAN SIZE - SKY IS THE LIMIT...
- CARRIES AT LEAST 12OZ OF WATER (A WATER/SODA/BEER CAN OR BOTTLE)
- ALL MODES OF TRANSPORTATION: HOVER, FLY, DRIVE, FLOAT, SUBMERGE
 - SEAMLESS TRANSITION BETWEEN MODES OF TRAVEL (PUSH THE BUTTON)
 - LAST MINUTE HUMAN HELP IS OK, AVOID IT.
 - INDOOR AND OUTDOOR OPERATION
 - REMOTE CONTROL OR AUTONOMOUS
 - 20 MINUTES TO 1 HOUR OF FLIGHT TIME
 - 100% REFUEL IN UNDER 10 MINUTES
- MULTIPLE FUEL TYPES: PRESSURIZED GAS, COMBUSTION (TOUGH INDOORS), ELECTRICITY
- CONTROLLABLE BY: BLUETOOTH, WIFI, OR USB CONTROLLER AT MINIMUM RANGE OF 1000 FT
 - ABLE TO DRIVE, FLY, OR SWIM A GRIDDED AREA AT A CHOSEN ELEVATION
- NO BIG TECH HARDWARE OR SOFTWARE WHILE OPERATING: MICROSOFT, AMAZON, GOOGLE, APPLE, ORACLE
 - MADE 100% IN THE USA

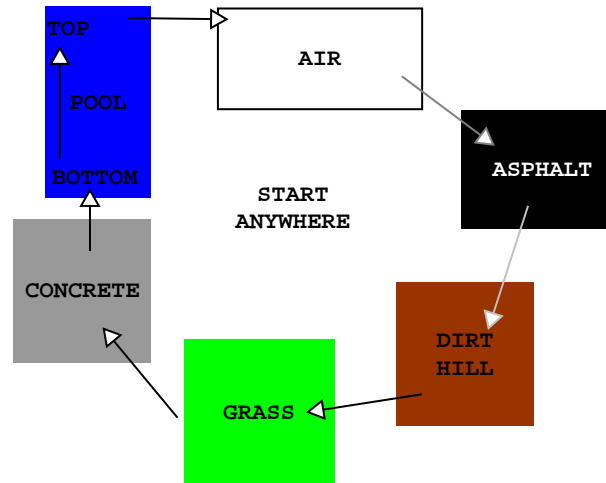
SCALING UP:

- OPTION FOR HUMAN DRIVEN PROPULSION WHILE IN WATER AND ON LAND WHEN ENLARGED
- SUPPORTS AT LEAST 300 POUNDS WHEN ENLARGED FOR A HUMAN IN GROUND AND FLIGHT MODE
 - OPTION TO ADD DRILLING CAPABILITIES
 - OPTION TO AUTOMATE (NO HUMAN INPUT WHILE OPERATING)

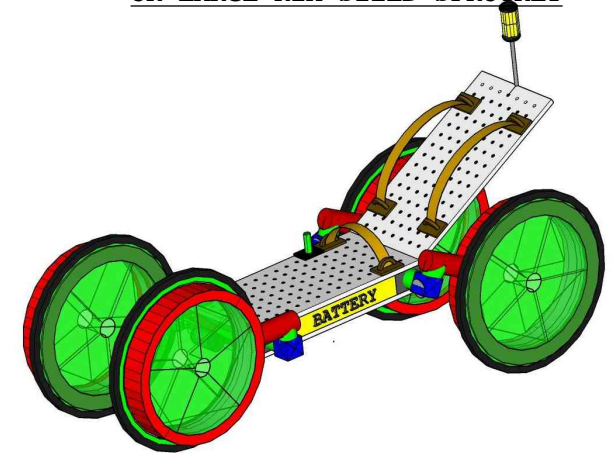
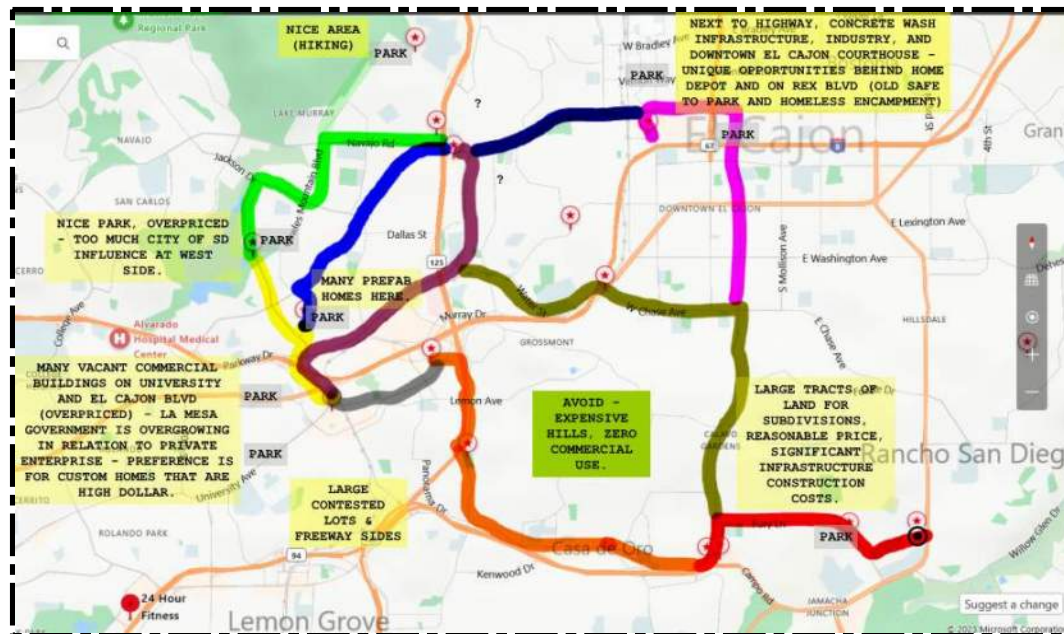


AIR, SEA, LAND TANK

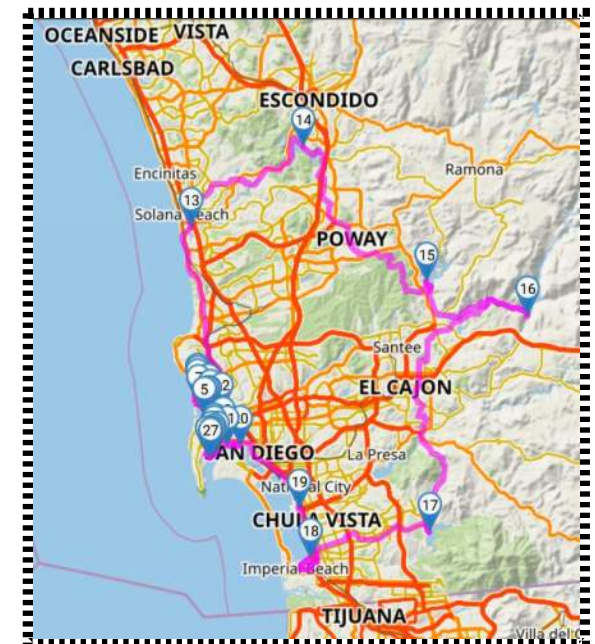
12"X12"X6" FROM
2.5" CYLINDERS, AA'S, DUCTED
FANS, BRUSHLESS MOTORS
(12OZ CAN SIZE)

HOME COURSE

RECUMBENT QUADCYCLE: RIM-DRIVEN
FAN/WHEEL ON APOLLO 11 CYLINDER+CUBE
ARMS - PEDAL TO FRICTION AT WHEEL RIM
OR LARGE RIM-SIZED SPROCKET

EAST COUNTY - PLEASANT POTENTIAL TEST LOCATIONS AND INTERESTING STREETS

THE WHOLE ENCHILADA - SD COUNTY
TO NORTH SIDE OF CAMP PENDLETON



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SHEET NUMBER:
 CO-OPETITION - AREA 51, ROUTES & EXAMPLE

CREATED ON: 2023.08.15
 LAST UPDATED: Tue, 2024/Jun/25 16:05

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SHEET NUMBER:
PREVIOUSLY BUILT (PERSONAL EXPERIENCE)

CREATED ON: 2023.08.15
LAST UPDATED: Tue, 2024/Jun/25 16:06

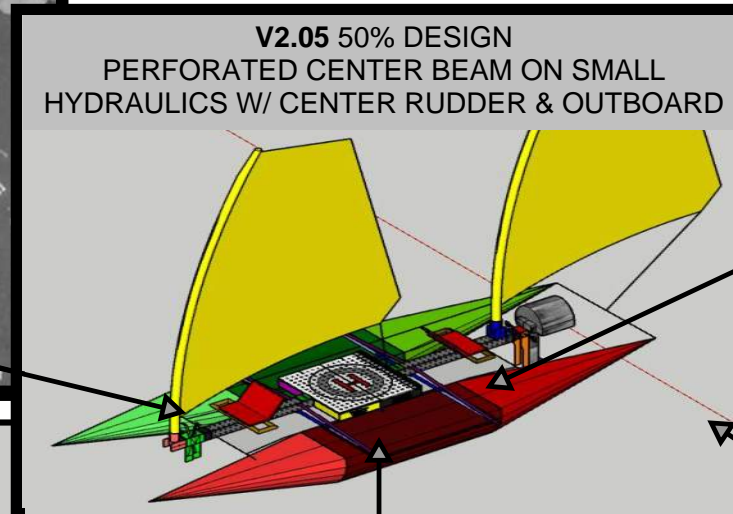
PREVIOUSLY BUILT

BUILDINGS, BOATS, PRODUCTS, AND LESSONS LEARNED.

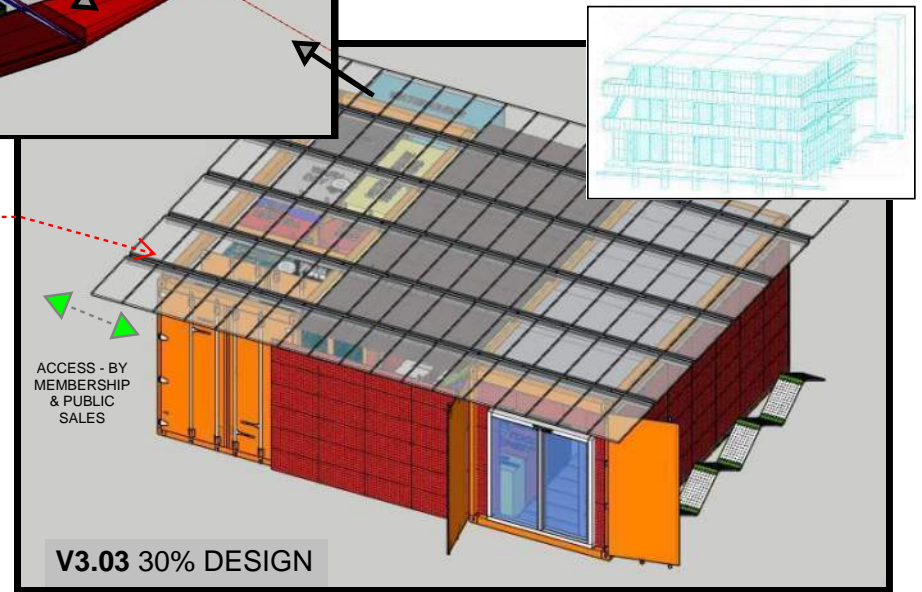
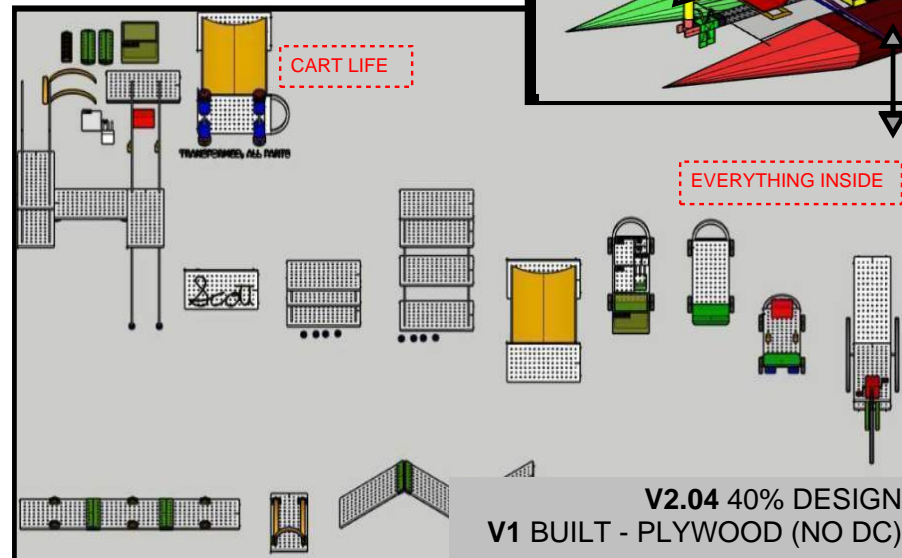
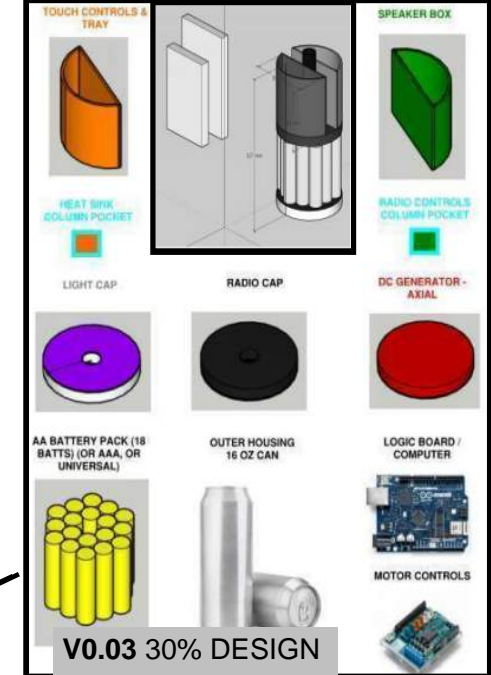
PRESSURIZING VESSELS



I'M BUILDING A BOAT



CANNING COMPUTERS AND APPLIANCES



PERFORATING PANELS INTO KITS

LOOKING FOR LAND

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SHEET NUMBER:
FIVE BUSINESS UNITS

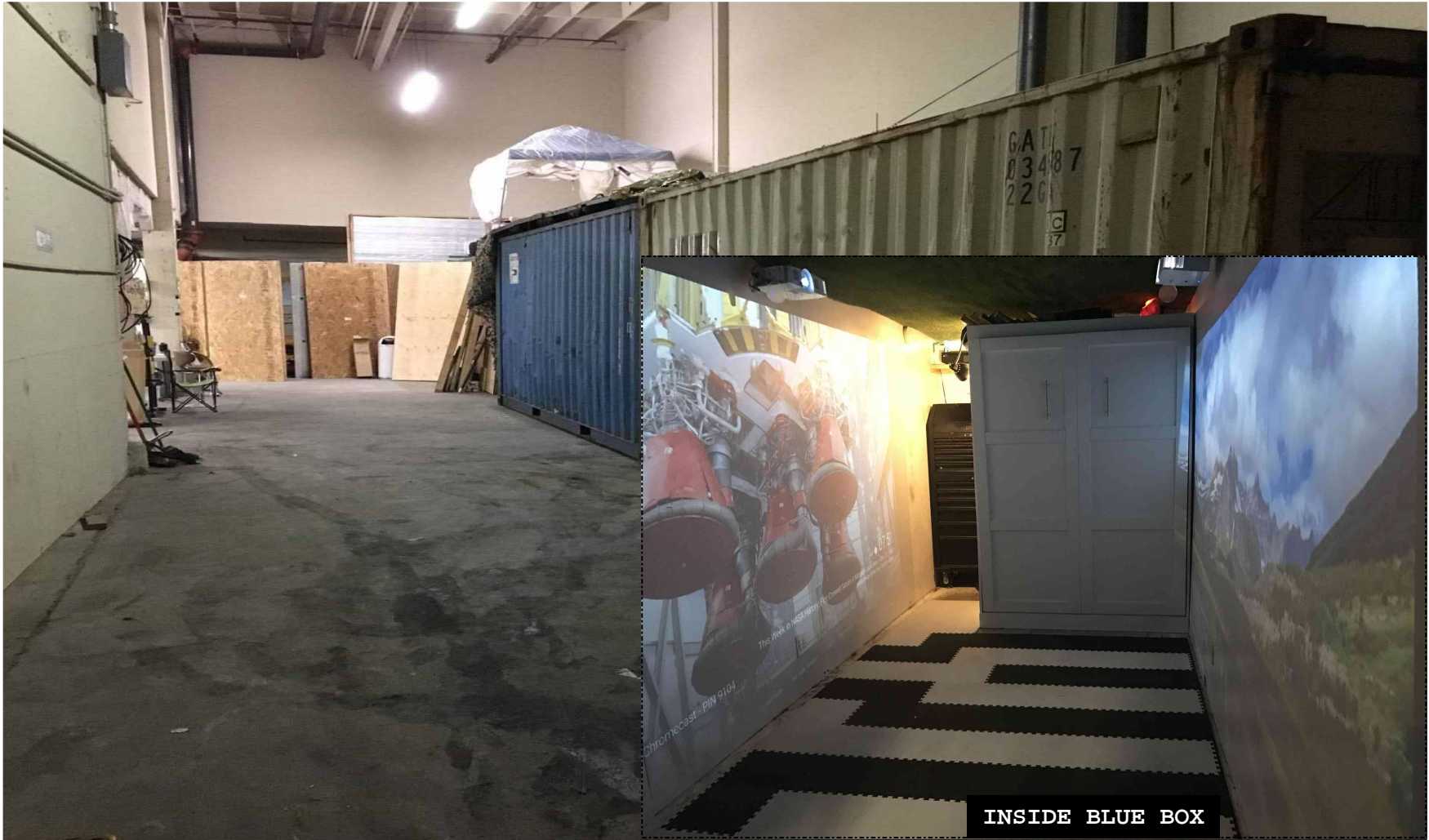
CREATED ON: 2023.08.15
LAST UPDATED: Tue, 2024/Jun/25 16:05

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SHEET NUMBER:
PAST: TINY HOME COMMUNITY + FABRICATOR

CREATED ON: 2023.08.15
LAST UPDATED: Tue, 2024/Jun/25 16:06

30 PERSON COMMUNITY(1/8 OF TOTAL WAREHOUSE SF SHOWN HERE.) APPROXIMATELY 15 SHIPPING CONTAINER HOMES, RV, WAGON, TRAILER, ETC. 3 TOILETS, 1 SHOWER, REGULAR METAL AND WOODWORK PLUS ART PROJECTS.



MISSED BUSINESS OPPORTUNITIES: REAL ESTATE (PRIMARY RENTER WITH "SUBLEASING" OR APPEARANCE OF SUBLEASING = SAN FRANCISCO/NYC/CHICAGO/DENSE CITY 101), INTERIOR BUILDING FINISHES INSTALLATION (MOST OF THE WORK ON ANY MODULAR HOME, AND THE ONLY AREA WHERE CUSTOMIZATION REALLY MATTERS (INSIDE, WHERE YOU LIVE), WELDING FOR HIRE, COFFEE/TEA SHOP, ART/THEATER/MUSIC SHOWS, VENDING, GARDENING, BUILDING AUTOMATION, FRONT DOOR +WATER/AIR/POWER KITS (ALL YOU REALLY NEED FOR A CONTAINER.)

LEFT: RE-FIT OF TRIMARAN. GOOD FOR LIVEABOARD AND MILITARY BECAUSE OF LARGE INTERIOR SPACE WHILE MAINTAINING SEAFARING AS OPPOSED TO A BARGE (GOOD INDUSTRIAL USE.) REFIT OF: PAINT, HATCHES, PLUMBING, ELECTRONICS, DAMAGE FROM FRESH WATER / INSECTS, SUMP PUMP, BILGE, RUDDER POST, DINGY, INVERTER/CHARGER + BATTERIES. ALSO COMMON - LINE REPLACEMENT & MUSTINESS. A SMALL CATAMARAN IS BETTER FOR CONTROL/PROPULSION METHOD, LOWER WEIGHT, AND MODULARITY (DISASSEMBLE, RE-ASSEMBLE, RECONFIGURE.) COMPARE TO A LITTORAL COMBAT SHIP. **RIGHT:** CATAMARAN BUILD FROM EXISTING SIT ON TOP KAYAKS AND WINDSURFING SAIL. STRAIGHT FORWARD BUILD, RIDES LOWER IN WATER. DISPLACEMENT VS WEIGHT IS #1, THEN RUDDER & PROPULSION DESIGN. SECONDARY BUOYANCY IS IMPORTANT (DRYBAGS.) ACTUAL NEED: 40' MAX LITTORAL COMBAT SHIP WITH SUBMERSION AND DECK LAUNCH CAPABILITY. WHY? PERSONAL, COMMERCIAL, AND MILITARY USE. BARRIER: CHAIN OF COMMAND AND CONFLICTING USE CASES BETWEEN MILITARY BRANCHES. **EASY ANSWER:** DUNKIRK & INABILITY OF CURRENT MILITARY TO OFFSET LOW COST OPTIONS BY "INSURGENTS."



38FT HORSTMAN TRIMARAN



16'6" KAYAK CATAMARAN WINDSURFER

MISSED BUSINESS OPPORTUNITIES: FISHING, KELP GATHERING / PROCESSING, TOURING, SCUBA INSTRUCTION, AT MARINA BOAT REPAIR, DREDGING, SIFTING, FLUFF AND FOLD SERVICE, OFFSHORE UNDERWATER REEF, AQUACULTURE.

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SHEET NUMBER:
PAST: BOAT CONSTRUCTION & MAINTENANCE

CREATED ON: 2023.08.15
LAST UPDATED: Tue, 2024/Jun/25 16:05



DJI HOBBY BUILD AND TESTING WITH 360 AERIAL CAMERA



3DR IRIS - 3DR TEAM TAUGHT PHOTOGRAMMETRY FOR EARTHWORK,
APPLIED TO CONSTRUCTION FOR LOGISTICS & BILLING.

RACING DRONES: TWO PURCHASED BUT NEVER FLOWN. FIRST PERSON AND THIRD PERSON MANUAL CONTROL REQUIRES SKILL, ESPECIALLY IN REGARDS TO VEHICLE VS OPERATOR ORIENTATION. PHOTOGRAMMETRY AND SWARM TECHNOLOGY IS MORE FOCUSED ON AUTOMATED GPS & ROBOTIC FLIGHT CONTROL + VEHICLE MAINTENANCE AS ONE PERSON CANNOT MANUALLY PILOT MULTIPLE DRONES WHATSOEVER.

RACING INDUSTRY: A SUDDEN INCREASE IN PARTS AVAILABLE AND THEIR ASSOCIATED QUALITY IN RELATION TO COST; BECAUSE THERE ARE MORE MANUFACTURERS. AS A RESULT, WE SHOULD BE PUSHING FOR MORE AMERICAN MADE ROBOTICS COMPANIES AND INDIVIDUAL PARTS INSTEAD OF FOCUSING ON ASSEMBLY ALONE IN THE U.S.

CONSTRUCTION USE CASES: PRIMARILY IMAGE AND POINT CLOUD CREATION THEN COMPARISON TO AN EXISTING 3D MODEL FOR TAGGING AND BUILDING INFORMATION MODELING USE CASES SUMMARIZED IN THE FOLLOWING PAGES. THESE DRONES ARE ESSENTIALLY AUTOMATED PHOTOGRAPHERS / SURVEYORS.



SKYCATCH CONTRACTED FOR DAILY AERIAL FLIGHTS OVER 1 YEAR TO
SHOW DAILY CHANGE AND TO CHECK PLANS AGAINST ACTUAL.



BUILDING INFORMATION MODELING

BUZZWORDS: DIGITAL TWIN, VIRTUAL
REALITY, 3D, 2D, CADD. (GENERALLY ANY
APPLICATION OF COMPUTERS TO INDUSTRY.)

A COMMERCIALLY PROVEN DESIGN AND
MANUFACTURING FRAMEWORK FOR BUILDINGS &
PRODUCTS (SYSTEMS/INDUSTRIAL ENGINEERING
& PROJECT MANAGEMENT.) WITHIN A LOWEST
COMMON DENOMINATOR FOR PUBLIC ACCESS:
PDF + SKETCHUP, COMPUTER TO PAPER.

HOW TO USE A COMPUTER TO BUILD

*THIS HAS BEEN WRITTEN BY A CONSTRUCTION TECHNOLOGY SPECIALIST WHO DESIGNS AND BUILDS SMALL PRODUCTS AND BUILDINGS. MOST EASILY CAPTURED AND EXPLAINED UNDER THE HEADING OF: BUILDING INFORMATION MODELING. COLLEGES HAVE TAUGHT IT AS COMPUTER AIDED DESIGN AND DRAFTING, ALTHOUGH THEY LEAVE OUT THE VAST MAJORITY OF CONSTRUCTION OPERATIONS APPLICATIONS FOR C.A.D.D., B.I.M. IS AT THE CROSSROADS BETWEEN ARCHITECTURE/ DESIGN, CONSTRUCTION/ FABRICATION, AND ENGINEERING/ CALCULATION. THE REAL INTENT OF B.I.M. - TO DO MOST EVERYTHING ON AND WITH A COMPUTER. THE REALITY - WE ARE NOWHERE CLOSE AND ACTUAL CAPABILITIES ARE ADVERTISED AHEAD OF WHAT TEAMS ARE WILLING TO IMPLEMENT CONSTANTLY, BUT ADOPTION IS STILL RAPID.

THIS WORK IS AN AMALGAMATION (COMBINATION) OF DOCTORAL LEVEL RESEARCH WITH FIELD APPLICATION AND CONSTRUCTION AS WELL AS LIVE-IN EXPERIENCE. THERE ARE VERY FEW PUBLIC RESOURCES THAT COMPILE THESE POINTS OF VIEW: TECHNOLOGY, TRUE MODULARITY (DIFFERENT USE CASES THROUGH FIELD SWAPPABLE PARTS), CONSTRUCTION, DESIGN, VEHICLES, CITY DESIGN; EVEN CORPORATIONS STRUGGLE WITH INCORPORATING THESE THINGS BECAUSE OF THEIR EXISTING METHODS AND CHARTED COURSE (TOUGH TO TURN THE BOAT -HENCE, GARBAGE PRODUCTS.)

THE END GOAL OF BUILDING INFORMATION MODELING IS TO COMBINE 3D VIRTUAL WORLDS WITH REAL WORLD OBJECTS AS WELL AS THEIR DESIGN / CONSTRUCTION AND ASSOCIATED PROJECT MANAGEMENT. THIS IS GENERALLY THE GOAL OF MOST TECHNOLOGY SO THE FOLLOWING CHART CAN BE APPLIED TO MANY TECHNOLOGY DRIVEN INITIATIVES.

"GARTNER" HAS A VARIETY OF DETAILED CHARTS FOR SPECIFIC TECHNOLOGIES AND "THE WORLD ECONOMIC FORUM" IS A FANTASTIC RESOURCE AS WELL. UNIVERSITIES ON THE OTHER HAND - USUALLY MISS THE MARK IN REGARDS TO REAL WORLD APPLICATION. STICK TO THE ADVANCED RESEARCH AT: PENN STATE, BERKELEY, STANFORD, USC, CAL POLY, ETC. FOR PRODUCTS - TRY PASADENA ART COLLEGE.

THE PRODUCTS DESCRIBED ON PREVIOUS PAGES SUPPORT A RELATIVELY LOW COMMON DENOMINATOR FOR LIVING IN COMPARISON TO HOW MANY AMERICANS LIVE DAILY, WHETHER: HOUSING, FURNITURE, APPLIANCES, VEHICLES, TOYS, MACHINES, COMPUTERS, OR UTILITIES. HOWEVER, THIS IS ALSO LARGELY THE RESULT OF A COMPARISON TO RATHER ENORMOUS COSTS FOR THE SAME IN URBAN AREAS OR CALIFORNIA. TRUTH IS - THESE ITEMS CAN BE BUILT FOR MUCH LESS, AND ARE NOT VALUABLE UNTIL THEY ARE. WHAT IS PROPOSED HERE - IS STILL MORE EXPENSIVE THAN ITEMS MADE WITH ECONOMIES OF SCALE OR OUT OF PLASTIC, HENCE THE REQUIREMENT FOR A LIFESTYLE CHANGE AS WELL. YOU CAN ALWAYS CHEAP OUT, BUT NOT OVER TIME.

YES, THERE ARE ALTERNATES - NO, THEY ARE NOT EASIER OR LESS EXPENSIVE IN REGARDS TO TIME AND MONEY. SPECIFICALLY BECAUSE THE DESIGNS PRESENTED EARLIER ARE BASED ON COMMON STANDARDS, ECONOMIES OF SCALE, AND GENERATIONS OF WORK WHILE MAINTAINING FLEXIBILITY IN REGARDS TO PARTS, MANUFACTURING METHODS, AND POWER SUPPLIES. LET ALONE DURABILITY.

A CHEAP WATER BOTTLE, A CLAY POT, AND A WOOL BLANKET ARE GENERALLY POOR SUBSTITUTES; BUT IF YOU ARE DETERMINED TO LIVE LIKE THAT, AND TO HARASS OTHERS ABOUT DOING THE SAME, THEN LIVE THAT WAY

FOREVER - DO NOT CHANGE, DO NOT CYCLE IN/OUT OR CREATE "LINES" - BE CHEAP FOREVER, CONGRATULATIONS & GOODBYE. WHY? BECAUSE TOO MANY OF YOU ARE DOING IT AS A VACATION OR A QUICK COME UP AND YOU DON'T BELIEVE IN ANYTHING YOU ARE DOING, AND CANNOT MAKE IT VALUABLE IN SOME WAY.

THE FOLLOWING IS HOW TO IMPLEMENT AN INDUSTRIAL ENGINEERING SYSTEM FOR THE PRODUCTION OF THESE ITEMS AT SCALE, OR FOR ANY OTHER PROJECT. THIS IS AN EXECUTIVE LEVEL MANAGEMENT PLAN FOR BUSINESS SYSTEMS AND INTEGRATION ACROSS A TEAM. SOME CALL THIS: LEAN, INTEGRATED PROJECT DELIVERY, BEST MANAGEMENT PRACTICES, SYSTEMS ENGINEERING, ETC. REGARDLESS - IT WORKS, BUT ONLY IF "THE RIGHT PEOPLE" ARE ONBOARD AS IN THOSE WHO SUPPORT THIS BUILDING INFORMATION MODELING PROCESS AND ITS TOOLS. THOSE WHO DRAG THEIR FEET WITHOUT PROVIDING AN ALTERNATE METHOD THAT IS USED OR DETAILED FEEDBACK ON SPECIFIC ISSUES, SHOULD WORK ON SOMETHING THAT DOES NOT INVOLVE GROUPS THAT PRODUCE PRODUCTS OR BUILDINGS AS THIS METHOD IS PROVEN OVER ENTIRE LIFECYCLES FOR BOTH. THIS STRUCTURED APPROACH IS IMPLEMENTED BY STRUCTURED PEOPLE; OFTEN MILITARY, CORPORATE, OR HARD WORKING SMALL BUSINESS. THE CHALLENGE: LARGE & EXISTING ORGANIZATIONS MAKE INCREMENTAL PROGRESS WHILE PRESERVING POWER / AUTHORITY / CONTROL. EDUCATION IS A SMALL PART OF THE NEED - A LOCATION ZONED AND SUBDIVIDED APPROPRIATELY IN AN AREA WITH THE SAME BUILT ENVIRONMENT ADVANTAGES (EXISTING INFRASTRUCTRE) THAT ARE AVAILABLE TO LARGE / EXISTING COMPANIES IS AN ABSOLUTE MINIMUM REQUIREMENT. GOVERNMENT MUST STOP REGULATING AND LOBBYING IN A MANNER THAT KILLS SMALL BUSINESS COMPETITION.

THIS 2 PAGE CHART TOOK 5 YEARS OF PROJECT MANAGEMENT WORK, AND ANOTHER 5+2 YEARS OF TECHNOLOGY/DESIGN/BIM FOCUSED RESEARCH AND EXECUTION IN ORDER TO DEVELOP A MENU LEVEL SUMMARY OF BASIC NEEDS AND A CHRONOLOGICAL METHOD IN RELATION TO PROJECT DELIVERY. THE MENU ENCOMPASSES HOW TO USE TECHNOLOGY IN THE 2020 ARCHITECTURE, ENGINEERING,

AND CONSTRUCTION INDUSTRY. UNIVERSITY DOCUMENTS ARE MORE GENERIC AND MISS PRODUCTION WORK. BIM IS ALSO KNOWN AS "DIGITAL TWIN" OR DIGITAL PROCESSES AND 3D MODELS FOR BUILDINGS AND PRODUCTS ACROSS THEIR ENTIRE LIFECYCLE. FIRST, SWITCH PAPER TO ELECTRONIC PDF (THE LOWEST COMMON DENOMINATOR FORMAT FOR MOST DOCUMENTS THAT ARE NEEDED.)

THE LEAP= "BUILD FROM THE 3D MODEL." YES! WE DO THAT, BUT IT CUTS OUT A LARGE NUMBER OF PEOPLE WHO DO NOT USE 3D. USING PAPER > PDF > 3D (& REVERSED) COVERS ALL THE BASES AND INTEGRATES ANY WORKFLOW. HUNDREDS OF PROGRAMS ARE INCLUDED; PARE DOWN TO ONE 3D FILETYPE: SKETCHUP .SKP/.IFC, ONE 2D FILETYPE: .PDF, AND ONE DATABASE FILETYPE: .CSV.

Menu Of Work Related To Design Coordination, MEPF/Trade Coordination, Field Support, BIM, and Other Construction Technologies / Processes

Phase	Activity	Detailed Description	Work Product	Preferred Software HEAVY DUTY	Related Team Member	Outsourcing Complexity	Why (Opinion / Editorial)
Strategy	S1 Research - Identify The Current ROI of AEC Technologies	Identify latest trends in technology, associated costs, and potential use cases	Scope Sheets & Presentation	Excel	BIM, PM, PX		Every project team goes through the growing pains of adopting new systems. New teams are made up of different companies on every design and construction project. Technologies are also advancing at an exponential rate. Project teams also go through a period of 2 or more years (the typical project duration) without having a chance to revise their systems and methods. High performing teams use modern technologies that facilitate faster communication while maintaining accountability. If a team wants to use these systems, they need to start by getting educated on what they are, and what they have to do to incorporate them. To do this successfully, a detailed strategy needs to be developed very early in the project and a plan with budgets needs to be established. After which, a team can focus on communicating the systems and strategies to new team members (who are typically waiting to be told what systems they are going to use on a particular project.) If we are going to adopt new processes/technologies (and we are) then we should do whatever we can to make those changes easy on each other.
	S2 Training - Educate Team On Latest Trends	Discuss current technology trends with project leads and show examples	Presentation via Website	Gartner Website > Wordpress	PX GC		
	S3 Research - Identify Existing Standards	Interview project leaders to determine preferred software systems / corporate standards and owner requirements	Discussion / Survey Results	Phone / Email / Text / Wordpress Survey	PX GC, PX ARCH		
	S4 Assess Strengths & Weaknesses	Interview team to identify current capabilities and areas where training is needed	Discussion / Survey Results	Phone / Email / Text / Wordpress Survey	PM, PE, ARCH, ENGR, TRADE		
	S5 Identify Design & Engineering Responsibilities	Develop design & engineering requirements with principal architect for distribution to related engineers and consultants. Include modeling scope / level of development requirements. Document as a Model Progression Specification to be included in contracts	Model Progression Specification & Associated LOD	Office 365 / Google Suite / Wordpress	PX, ARCH, ENGR		
	S6 Contract Language (designers/owner)	Write BIM specific partnering agreement (single contract exhibit)	Word Doc	Office 365 / Google Suite / Wordpress	PX, ARCH, OWN		
	S7 Contract Language (trades)	Write trade-specific BIM scopes (multiple contract exhibits)	Word Doc	Office 365 / Google Suite / Wordpress	PM		
	S8 Process Diagrams	Create project specific process diagrams including: document control (drawing issuance, slipsheeting, RFI posting, drawing log updating, clash detection, model database data input, quantity tracking, field issue tracking, pdf drawing issue tracking, owner change incorporation, and model issue tracking	Flowchart	Powerpoint > Wordpress	PM, ARCH, ENGR, TRADE		
	S9 Communication Methods (group settings)	Develop communication systems for co-located and remote offices (Screenshare, Video Conferencing, Whiteboards with Remote Access Options)	Plan View Sketch of Office	GoToMeeting, Smartboard/TV/projector + Apple TV & Chromecast	PM, ARCH, ENGR, TRADE		
	S10 Communication Methods (individual work)	Setup project-specific instant messaging system / forum (used for more technical discussion on training, and between trade detailers as well as design team members)	Working Software, eg. Slack Instant Messaging & Channels	Slack	PM, ARCH, ENGR, TRADE		
S11	Issue Tracking / Work To Complete	Develop method for tracking issues within the modeling process and the contract drawing review process. Including how to input issues, status issues as open/closed, the location of issues in plan view on the contract drawing floorplans, any supporting documents, and creation/distribution of reports for outstanding issues. AIA - Preconstruction RFI Process	Powerpoint Flowchart and Screenshots	Powerpoint, Plangrid	PM, ARCH, ENGR, TRADE		
Training	S12 Training - new team members	Create a startup package for new team members	Powerpoint & 11x17 PDF Cheatsheet	Powerpoint, Bluebeam, Video Recording	ALL		New team members arrive on a rolling basis - training is continuous and never ending. Identifying the existing skills of team members is also very important before using BIM at a higher level with more software requirements. 1 BIM user can show the team its issues, but they cannot resolve them and typically issues require domain-specific knowledge to identify and resolve so having subcontractor managers perform design coordination for their respective trades & scopes is ideal. One BIM person can definitely "do the BIM work," but expect to limit their scope to "issue identification" while other team members do "issue resolution." Otherwise, the team needs to be trained to do both of these activities.
	S13 Training - designers and trades doing the work	Present strategy for design coordination	Powerpoint	Wordpress, Powerpoint, Video Recording	ALL		
	S14 Training - continuous	Conduct weekly training sessions for software and processes	Powerpoint and Skill Tests	Powerpoint and Software for Specific Section	ALL		
	S15 Value Stream Exercise (lean)	Conduct a value stream exercise for owner directed changes, contract drawing creation / modeling, and shop drawing creation / modeling (intent - train team on related design authoring activities, durations, and encourage communication between team members while developing support for systems and processes)	Sticky Note Exercise (Pull Plan) & Flowchart	Sticky Note Whiteboard > Primavera or Microsoft Project	ALL		
Setup	S16 Accounts	Create form for setting up new accounts & build into onboarding information	Web Form	Wordpress Form	IT		IT Groups are typically responsible for hardware setup. The latest software changes so rapidly and is dependent on the needs of a project team so expecting IT to set all of it up for a project is not reasonable. Software setup is as much of a jobsite responsibility as an IT one, so having a method for communicating account names, licenses, training, and project access is critical. Otherwise there is a guaranteed conflict between jobsite needs and IT support. That said - most companies charge owners a flat fee per month per user for IT so these costs need to be compiled regularly.
	S17 Accounts (maintenance)	Maintain all accounts and related permissions	Web Form	Wordpress Form	IT	1	
	S18 Startup	Setup all systems and accounts for primary users	Various Software & Wordpress Report	Various Software & Wordpress Form Reply	IT		
	S19 Hardware setup	Assist in setup of on-site hardware (LCDs, Meeting Room (Paths for reservations, Apple TVs, PDF plan tables, Server racks)	Office Layout Sketch, Equipment List & Physical Labor	IT Procurement	IT		
DC1	Owner / Designer Change Management & Stakeholder feedback	Interview design team to define process for procuring stakeholder feedback from the owner and create process diagrams to show how this feedback is incorporated into the contract drawings.	Flowchart	Phone / Email / Text / Wordpress Survey	ARCH		Designers are beginning to share a larger number of their responsibilities with general contractors and their related trades. This is often shown through an increase in the number of design-build/PC style contracts, and the details within the execution of those contracts. As a result, contractors and designers need to understand the details of our respective businesses down to day to day operations. The identification and communication of "design issues" or "work to complete" helps teams use a linear design process instead of a recursive one. Design is often described as a very non-linear process, but focusing on specific locations and building systems while communicating progress helps to maintain a linear process so designers across the board do not have to recreate their work. These tools help teams facilitate a linear design process: a design schedule, work to complete log, a drawing log with locations, model/drawing overlays that show changes, and a running tally of issues by location. The role of BIM is not "fix all the problems" instead it is - "Identify all the problems" and communicate them to leadership in a clear format for rapid resolution.
DC2	Quality Control (Contract Drawings)	Interview design team to define existing quality control processes and to create process diagrams for quality control processes that are needed to create final contract drawings and shop drawings.	Flowchart	Phone / Email / Text / Wordpress Survey	ARCH, ENGR		
DC3	Designing - Areas of Focus (and change communication)	Coordinate/attend coordination meetings between design team members to identify upcoming design changes and to focus the resolution of design issues on areas where shop drawings are being created	Model Issues Report	Revit/Autocad > 360 Glue > Navisworks, OneNote, Bluebeam / Plangrid	ARCH, ENGR		
DC4	Structural/Civil/Architectural Coordination Weekly Meetings (meeting agenda focused on specific disciplines)	Schedule regular meetings for the development of contract drawings that show final slab edge conditions, penetrations through structural members, structural members vs architectural ceilings/walls, and curbs / pads.	Structural Contract Drawing & Model Issues Report	Bluebeam, Autocad, Revit, Navisworks, 360 Glue	ARCH, ENGR		
DC5	Contract Drawings (Common Issues)	Conduct design quality control sessions for the development of contract drawings that show: final civil utility points of connection, utilities deconflicted with site features, ceilings heights vs door/window heights, ramps and bridge connections to building and site, fire enclosure/wall rating, drain/plumbing coordination with beams, slab depressions, slab sloping, head of wall details, king stud head of wall conditions, backing and in-wall systems, hot/water, RCP layout matched to mechanical and electrical plans, low voltage devices, exterior skin connection to structure, structural features matched between architectural and structural drawings, miscellaneous metal spatial conflicts, equipment clearances. Set milestones for when to complete each of these activities for specific building floors / areas.	Model Issues Report	Revit/Autocad > 360 Glue > Navisworks, Plangrid, OneNote, Bluebeam, Autocad	ARCH, ENGR, PM		
DC6	Contract Drawings (Log of Changes)	Develop method for all design team member to present design changes that will be included in newly released drawing packages for their related disciplines.	Design Narrative, Contract Drawings, Clouded Changes	Bluebeam, Office 365 Word, Excel, Revit, Navisworks, 360 Glue	ARCH, ENGR		
DC7	Schedule	Develop a report that forecasts the impact of key design decisions on project milestones, eg. Equipment selection impact on the creation of MEPF shop drawings and/or structural material ordering. Show how this schedule relates to each floor of the building with a color coded plan. Intent - align designers and trades so specific areas can be completed in sequence	PDF / Powerpoint	Excel > Bluebeam, Microsoft Project, Primavera	ARCH		
DC8	Drawing Log	Create drawing log (Develop drawing log to show which floors and related shop drawings have been impacted by each contract drawing issuance.)	Excel	Excel > Bluebeam	ARCH	1	
DC9	Drawing Log QC Check	Maintain drawing log	Excel	Excel	ARCH	1	
DC10	Revised Contract Drawings (slipsheeting & RFI)	Crosscheck QC drawing log with designer drawing log to confirm all sheets have been transmitted and received correctly	Excel	Excel	ARCH	5	
DC11	Design Change Identification	Develop process for slipsheeting drawings, posting RFIs, and conducting drawing reviews	Powerpoint Flowchart	Powerpoint > Wordpress, Plangrid / Bluebeam	ARCH, ENGR		BIM for General Contractors has primarily been a MEPF clash detection and coordination process. One of the goals of a BIM manager is to reduce the amount of time spent on clash detection so additional use cases can be implemented. Ideally, design documents are shared and strategies are coordinated enough to result in coordinated MEPF systems without clash detection. A "Clashless" and fully coordinated design is not possible because designs are constantly under development to incorporate change and design decisions take time / require additional information from various stakeholders and engineers. Instead - these conflicts need to be documented based on location, responsible contact, and required information in order for a coordinated design to be completed. BIM is not a "resolve all the issues" tool. It is a "Identify all the issues" and elevate them to decision makers with as much information as possible so that decisions can be made via a process.
DC12	Design Change Identification	Overlay new contract drawing floorplans to highlight areas that have been changed	Contract Drawing Highlights	Plangrid / Bluebeam	ARCH	2	
DC13	Design Change Identification	Overlay new models to show areas that have changed	PDF Model Screenshots	Revit/Autocad > 360 Glue > Navisworks > Bluebeam / Plangrid	ARCH, ENGR, TRADE	2	
TC2	Align Models (griddines)	Coordinate alignment of all models - distribute Revit Template and DWG griddines from architect to all team members so models can be aligned with the same fin	DWG File	Revit, Autocad	ARCH, ENGR, TRADE		
TC3	Align File Names (naming conventions)	Provide model file naming requirements	11x17 PDF Cheat Sheet	PDF, Wordpress	ARCH, ENGR, TRADE		
TC4	Combine Models	Combine all models into a file	Navisworks File	360 Glue, Navisworks	ARCH, ENGR, TRADE		
TC5	Maintain Models	Ensure compiled model includes all of the most applicable trade/design models (Review models weekly to confirm that model location is consistent and compiled model is working)	Navisworks File	360 Glue, Navisworks	ARCH, ENGR, TRADE	2	
TC6	Clash Detection (setup)	Setup clash detection, search sets, and trade priority (who typically moves first)	Navisworks File	Navisworks	TRADE	1	
TC7	MEPF Routing Strategy	Identify congested areas, main arteries, and areas with structural issues in plan view. Focus meetings on these areas.	Powerpoint	Plangrid / Bluebeam, Navisworks	TRADE		
TC8	Clash Detection (weekly or more)	Conduct weekly clash detection and assign issues to trades in a weekly report	Navisworks File & PDF Report	Navisworks, Saved Viewpoints	TRADE	1	
TC9	Clash Detection (referencing)	Conduct weekly coordination meetings to resolve outstanding issues between detailers	Model Issues Report	Navisworks, Saved Viewpoints	TRADE		
TC10	Shop Drawing Creation (signoff)	Create sign off documents with outstanding issues by floor and area before the creation of shop drawings	Model Issues Report & Cover Page	Plangrid, Bluebeam	TRADE		
TC11	Schedule (Contract Drawing Milestones)	Develop a design coordination schedule for contract drawings - 1 page (11x17)	Excel Short Interval Production Schedule	Excel > Plangrid / Bluebeam	ARCH, ENGR, TRADE		
TC12	Schedule (Shop Drawing Milestones)	Develop a design coordination schedule for shop drawings - same 1 page (11x17)	Excel Short Interval Production Schedule	Excel > Plangrid / Bluebeam	ARCH, ENGR, TRADE		

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BIM MENU (2/2)

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PDF BENEFITS FROM STANDARDIZATION IN MORE PLACES WHERE IT IS AT ODDS WITH OTHER METHODS (BROWSERS/HTML.) OTHERWISE, I INTEND TO MEET THE LOWER LEVEL USE CASES IN THIS MENU WITH IT IN ORDER TO REFINE EXACTLY WHAT PROGRAMMING NEEDS TO BE UPDATED. WHO CARES, WE BUILD WITH PAPER! HEARD THAT FOR 10 YEARS, BEAT IT DOWN WITH THE RIGHT TOOLS.

HOWEVER, ACCESS TO TALENT AND SKILLED LABOR FOR THOSE TOOLS IS LIMITED. HENCE THE FILE TYPE SIMPLIFICATION TO PDF. MORE IMPORTANTLY - SIMPLER SOFTWARE AND FILETYPES MAKES ALTERNATIVE DESIGN AND CONSTRUCTION METHODS AVAILABLE AT DRASTICALLY REDUCED PRICE POINTS. \$100 PER SQUARE FOOT IS MORE THAN POSSIBLE. \$\$\$ SOFTWARE = \$\$\$ TALENT REQUIRED.

KILL OFF POORLY MANAGED DESIGN, AND DO NOT LIVE-IN OR PURCHASE HOUSING THAT IS MARCHING US TOWARDS A \$500/SF MARKER OR YOU ARE KILLING YOURSELF AND EVERYONE ELSE. EVEN WORSE WHEN BUILDING AND *RE-BUILDING A BOAT (OR PARTS OF ONE) SUPPORTED BY PEOPLE LIVING TOWARDS \$500/SF. DON'T BUILD: HUGE AIRCRAFT CARRIERS, NUCLEAR SUBMARINES, OR ANY EQUIPMENT WE CAN'T USE AS CIVILIANS.

Menu Of Work Related To Design Coordination, MEPF/Trade Coordination, Field Support, BIM, and Other Construction Technologies / Processes

Phase	Activity	Detailed Description	Work Product	TRANSITION AWAY FROM IPAD TO PDF OR MIXED Preferred Software \$200 EACH	Related Team Member	Outsourcing Complexity	Why (Opinion / Editorial)
BR1	Big Room Meetings	Review: 1. Status of work in the field with photos (presented by GC); 2. Current schedule status and logistics plan (presented by GC); 3. Key area focus (upcoming signoff area / shop drawings to be submitted next); 4. New contract drawing and specification issuances (presented by designer) and review of the crosschecked drawing log (by GC); 5. Owner / designer changes from last week and any that are upcoming (presented by owner/designer); 6. Trade roadblocks including plan view of location, model screenshot, supporting submittals, and proposed solution / course of action (presented by trades); 7. Submittal Status (key items on log that have an impact on coordination schedule); 8. Breakout into smaller rooms for sessions on specific trades, eg. structural engineer and steel/concrete contractor, mechanical engineer & mechanical contractor, review of a specific area, etc.	TV/Projector, OneNote, Excel, Navisworks, Plangrid, Bluebeam, iCloud Photos, GoToMeeting	iCloud Photos / OnBlue / Pix4D, Excel / Bluebeam, Plangrid, Printed Hot Items, OneNote, GoToMeeting, High Quality Conference Room Phone System, Avoid Navisworks Until Breakouts	ARCH, ENGR, TRADE, OWNER, GC		Big room meetings can either be: 1. MEP detailers and possibly Architects / Engineers sitting in a room together to resolve clashes. 2. A preconstruction meeting that updates everyone on the job for: schedule, estimating, new drawings, outstanding issues, submittal status, etc. followed by a breakout into smaller meetings. Both are helpful
F51	Field Support	Model Access - Field	Setup model for access via iPad	iPAD App	360 Glue	SUPER	Field personnel suffer when they do not have the most recent design information. While office team members often lack knowledge of field activities. Clear and rapid communication between field and office personnel helps to ensure that teams are reacting to eachothers' needs as quickly as possible.
F52		Contract Drawing Access - Field	Setup contract drawings for access via iPad	iPAD App	Plangrid	SUPER	
F53		Shop Drawing Access - Field	Setup shop drawings for access via iPad	iPAD App	Plangrid	SUPER	
F54		Contract/Shop Drawing Access (no IPAD)	Setup access via Android OS and Public Terminal / Job Box no iPad or Tablet	Field Kiosk / Job Box	Plangrid website / Bluebeam	SUB & SUPER	
F55		Inspections, Quality Control, Issue Tracking - Field	Develop a method for inputting and organizing inspections by a third party inspector, or a city inspector	iPAD App	Plangrid	SUPER	
F56		Logistics Planning	Develop PDF logistics plans from colored pencil plans created by superintendents	Contract Drawing Highlights, PDF	Plangrid / Bluebeam	SUPER	
F57		Logistics Planning vs Execution	Overlay logistics plans onto aerial photography weekly to show planned vs progress	Contract Drawing Highlights, PDF	Plangrid / Bluebeam	SUPER	
F58		Terrestrial Photos	Develop a method for taking and storing terrestrial progress photos	Powerpoint Flowchart & App or File Folder	iCloud Photos	SUPER, PX, PM TRADE, ARCH, ENGR, OWN	
F59		Layout	Setup systems for layout by robotic total station or laser layout	PDF Signoff with DWG/NWD, and CSV point files	Revit & Trimble or Hilti Instrument	TRADE, SUPER	
F510		Aerial Photos	Develop a method for taking and storing aerial progress photos	Powerpoint Flowchart & App or File Folder	Pix4D & DJI Drone	SUPER, PX, PM TRADE, ARCH, ENGR, OWN	
F511		Laser Scanning	Develop a method for taking and storing building scans (high-grade laser "blower, or medium grade photogrammetry "faster)	Powerpoint Flowchart & App or File Folder	Faro	SUPER, PX, PM TRADE, ARCH, ENGR, OWN	
D61	Database (4D, 5D, 6D, 7D)	Identify Work Packages	Further breakdown Model Progression Specification into Work Packages and continue developing over time	Live Software - 'Work Package' cell category	Assemble Systems	SUPER, PM, EST, TRADE	Tablet use (primarily iPads) facilitates this communication by ensure that the latest design information is transferred from the office to the field. Clear photo documentation/organization and field issue tracking also communicates priorities, production progress, and a sense or urgency from the field back to the office. Team members benefit from reduced travel time, and faster issue identification/resolution.
D62		Database Setup - (4D Scheduling, 5D Costing, and FM Data Input)	Setup shared database and install local plugin software on all computers that are used for modeling "especially the ones that maintain a central / master model (Assemble Systems)	Plugin Software & Website	Assemble Systems	TRADE, ARCH, ENGR	
D63		Database (4D Scheduling - animations and forecasted pictures)	Create animated schedule linking project model to Primavera schedule. 4 animated versions with accompanying screenshots highlighting areas of work for each month over the duration of the project.	PDF, Powerpoint, and/or MP4 Video File	Revit / Autocad > Assemble Systems < Navisworks < Primavera	SUPER	
D64		Database (5D Costing - design production tracking & bid package check numbers)	Create bid packages to track quantities of material shown in the design models.	PDF line graph for each bid package	Revit / Autocad > Assemble Systems < Navisworks	PM	
D65		Database (5D Costing - trade detailing production tracking)	Create bid packages to track quantities of material shown in the trade models.	PDF line graph for each bid package	Revit / Autocad > Assemble Systems < Navisworks	PM	
D66		Database (5D Costing - design model based estimate)	Create work packages and associate unit costs with quantities from design models	Database Field	Revit / Autocad > Assemble Systems < Navisworks < Sage	PM	
D67		Database (5D Costing - trade model based estimate)	Create work packages and associate unit costs with quantities from trade models	Database Field	Revit / Autocad > Assemble Systems < Navisworks < Sage	PM	
D68		Database Cleanup (Verifying Entries Are Correct)	Model databases need a lot of QC against a known set of naming conventions that are required for building operation. This activity green lights or red lights data and says that it is ready or not ready for import into an FM / Building Operation System (in 2019 these building owner models and databases started to be called "Digital Twins.")	CSV, XML, or Database	Assemble + Invicra (BIM Assure)	TRADE	
D69		Metrics & Progress Tracking (design production reporting)	Create change management dashboard - design models	PDF or Website line graph	Revit / Autocad > Assemble Systems > Tableau/Power BI > Wordpress / PDF	PM	
D70		Metrics & Progress Tracking (design detailing production reporting)	Create change management dashboard - trade models	PDF or Website line graph	Revit / Autocad > Assemble Systems > Tableau / Power BI > Wordpress / PDF	PM	
D81	Documentation	Metrics & Progress Tracking (designer clash detection reporting)	Create clash coordination dashboard - design models	PDF or Website line graph	Navisworks > Assemble Systems > Tableau / Power BI > Wordpress / PDF	PM	Detailed design metrics are not typically tracked on projects, and when they are it is difficult to keep them updated daily/weekly. Instead, teams often track metrics for submittals and RFIs, schedule impacts are sometimes shown retroactively, and estimators often create an initial list of quantities very early in a project. Teams do not typically show design progress in a way that helps the team focus on areas of work that are critical to the project schedule. Modern tools for design databases help to provide these design metrics so that teams identify where design change is occurring, and to what degree. The same tools are used to show how the design relates to cost and schedule information and finally how the data can be imported into the software that an owner uses to operate their various facilities. Companies that have mastered how to maintain these databases with design quantities, schedule activities, and unit costs can also use them to forecast project success and expected outcomes by comparing current project progress to historical databases (using analytics). At the least, a team can use this data to show: who, what, where, and when in regards to design change.
D82		Metrics & Progress Tracking (trade clash detection reporting)	Create clash coordination dashboard - trade models	PDF or Website line graph	Navisworks > Assemble Systems > Tableau / Power BI > Wordpress / PDF	PM	
D83		Database (Owner's Facilities Management System Data Input by trades and designers)	Coordinate trades, and designers to input all owner required facilities management information	Database Field, csv export	Revit / Autocad > Assemble Systems	TRADE, ARCH, ENGR	
D84		Database (Facilities Management Data Input - turnover documents)	Compile all posted contract drawings, shop drawings, submittal PDFs, editable models, and coordination models for transfer to owner	Database Field, csv export	Revit / Autocad > Assemble Systems	PM	
DOC1		Project Website - training	Include links to project systems, directions, and shared contacts in project website	Website	Wordpress	SUPER, PX, PM TRADE, ARCH, ENGR, OWN	
DOC2		Project Website - Project Management system reporting	Include metrics for project management system (RFIs / Submittals) in project website	Website	Wordpress, Power BI, Tableau, Python, Panda, etc.	SUPER, PX, PM TRADE, ARCH, ENGR, OWN	
DOC3		Project Website - Change Management system reporting	Include metrics for design change (quantities changed by bid package) in project website	Website	Wordpress, Assemble Systems, Power BI, Tableau, Python, Panda, etc.	SUPER, PX, PM TRADE, ARCH, ENGR, OWN	
DOC4		Discussion & Documentation - training	Create company specific training videos for: document control (drawing issuance, slipsheeting, RFI posting), change management, clash detection, design issue management / constructability reviews, animated schedules, aerial photo based logistics plans)	MP4 Video File	Youtube	SUPER, PX, PM TRADE, ARCH, ENGR, OWN	
DOC5		Marketing - Photos	Create 360 videos during construction	MP4 Video File	Theta 360 Youtube	SUPER, PX, PM TRADE, ARCH, ENGR, OWN	
DOC7		Marketing - Videos	Create time lapse videos of construction	MP4 Video File	Pix4D Crane Camera, OnBlue	SUPER, PX, PM TRADE, ARCH, ENGR, OWN	
DOC8	Automation	Marketing - Renderings	Create renderings of complicated areas in complete model	PDF Renderings	Navisworks	SUPER, PX, PM TRADE, ARCH, ENGR, OWN	Managing technology is not the team's primary responsibility. These tools exist to reduce cost, increase quality, and shorten the project schedule. Simplifying access to systems, documenting step by step processes, and limiting the use of "hyped" technologies (as defined by Gartner Inc) to marketing exercises helps to ensure that teams are using tools that are ready for production activities. Smaller construction company startups that are focused on wood and light gauge framing are beginning to prefabricate wall assemblies in manufacturing environments. Prefabrication requires a complete design process so these companies are often vertically integrated which can make them more competitive. Some larger general contractors are doing the same thing.
AUT1		Assembly Line Prefabrication With Robotic Support	Warehouse assembly lines / prefabrication, lately the Metal Wood Frammer Revit Plugin is being used to make wall assemblies at a large number of subcontractors / general contractors. Most major manufacturers do this sheet metal, window, steel, precast, bricklaying etc. 3D printing may be viable as a method of commercial on-site concrete installation at some point.	Wall Assembly, MEPF Assembly, Precast Assembly, Window Assembly, etc.	Revit + MWF and other plugins, Navisworks, CNC / CAM per machine, etc.	TRADE	
AUT2		Automated On-Site Equipment	Automated equipment - typically earth moving	Equipment Efficiency Rates Chart & Inventory Management List / Map	Komatsu / Caterpillar / John Deer	TRADE	
VR1	VR / AR	View BIM work products in VR @ site office via heavy hardware	360 videos and renderings are easy to create for a VR experience. Although finding a host that is local / password protected can be harder. Complete model views are another option; but they require very heavy hardware and a wide area to use them in.	Complete Navisworks model uploaded to gaming / VR computer	HTC Vive + Fuzor, or Oculus Go, or Microsoft Hololens	SCHED, SUPER, EST	Virtual Reality is relatively easy to incorporate as a model viewer which is great for getting people to actually look at the model (often times a huge issue.) Eventually, it will work well as a method for commenting on the model as well "perhaps via audio recording (this feature requires development.)" Creating 3D models in a virtual environment on the other hand is much slower than a mouse and keyboard and requires quite a bit of training. It's still fun for a party / marketing exercise though. Real value seems to be in making VR accessible at a low price point as a replacement for video conferencing.
VR2		Create BIM work products in VR @ site office via heavy hardware	Import Navisworks model into VR software and work to create 4D, 5D, 6D deliverables	Stakeholder model walkthrough for comment & incorporation or CD proposal.	Navisworks + Fuzor	OWN	
VR3		View BIM work products in VR/AR/MR in field via web browser	Lowest cost method for VR that is accessible by the field. Ideal use - builder feedback on the model and communication of design/schedule/logistics to the field.	360 View or smaller model uploaded to viewer.	Google Comfort, Android OS, Mozilla Firefox, "Smart Glasses"	SUPER, OWN	

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- SEPARATE PDF FILES ARE COMBINED INTO A SET, THEN SAVED AS A SINGLE PDF FILE. FILES ARE MAINTAINED SEPARATELY IN ORDER TO ALLOW FOR EDITING MULTIPLE PAGES SIMULTANEOUSLY WITH REVISION TRACKING.
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- CREATE FORMS FOR THE MANAGEMENT OF DIFFERENT ASPECTS OF A BUSINESS RELATED TO: DESIGN, COST/SALES/RECEIPTS, SCHEDULE, PRODUCTION QUALITY, AND MARKETING.
- MANAGE A BUSINESS WITH CLOSE TO ZERO COMPUTER OVERHEAD EACH MONTH WHILE USING A TINY COMPUTER (96 BOARDS) AND PDF.

WORKING EXAMPLES

- PDF IS THE STANDARD METHOD OF MANAGING ARCHITECTURE, CONSTRUCTION, AND ENGINEERING DRAWINGS AT LARGER COMPANIES AS WELL AS AT FORWARD THINKING SMALL GENERAL CONTRACTORS (PRIMARIY AS A PAPER REPLACEMENT AND FOR SIMULTANEOUS MARKUPS WITH A REVISION HISTORY LOG + FORM DATA ENTRY WITH CALCULATIONS.)
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- BACKUPS: EXPORT TO PDF, EXPORT TO CSV, EXPORT TO 3D BY PROJECT. MAINTAINING MULTIPLE FORMATS COSTS MONEY. A PRINTED FILE SYSTEM MAY BE NICE BUT PRINTS GET OLD FAST, AND COST A LOT!

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0. START WITH SEVERAL PAPER DRAWINGS OF YOUR BUSINESS: LOGO, WEBSITE, PRODUCT.
1. CREATE A PDF OF A SITE FROM DRAWINGS.
2. EXPORT PDFS OF YOUR DESIGN FOR SPECIFIC PROJECTS WITH AN ASSOCIATED NUMBER AND NAME IN A TITLEBLOCK (AKA "SPOOL" TO CREATE SHOP DRAWINGS.)
3. DIFFERENT FILE NAMES FOR PDFS.
4. AUTO-CREATE LINKS WITHIN THE PDF DOCUMENTS BASED ON SHEET NUMBERS, SHEET NAMES, AND A SHEET INDEX.
5. SALES THROUGH DIRECT PAYMENT TO A VENDOR LIKE PAYPAL VIA A LINK.
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